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CONSOLIDATED TRANSLATION SURVEY

Number 102

For June 1966

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CONSOLIDATED TRANSLATION SURVEY

FOR JUNE 1966

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CONSOLIDATED TRANSLATION SURVEY

PREFACE

This survey is prepared monthly by the Foreign Documents Division, Office of Central Reference, CIA, from lists received through the cooperation of US government agencies and includes translations prepared by such agencies, private industry, universities, research institutions, and commercial translation organizations. It is a compilation of foreign documentary projects completed or started during the preceding month.

Translations are listed by area and subject category. Scientific projects are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date of publication, and publication identification of the completed project are given when available. Tables of contents of journals translated cover-to-cover are reproduced from the current publications.

Projects in process, i.e., not completed as of the date of this survey, are noted with an asterisk (*), and, when available, a project-control or "in-process" number is noted in parentheses following the title. Certain details may be unavailable on such projects. New projects in process are not listed again until they are completed.

An index to authors of items in this issue is provided at the end of the survey.

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(see CPSTI)

ACSI - (see DIA)

AEC - Atomic Energy Commission (see CPSTI)

AERE Harwell Lib

The Librarian
AERE, Ministry of Supply
Harwell, Didcot, Berks
England

AFCRL Res Lib

Air Force Cambridge Research Laboratories
Research Library
Office of Aerospace Research
United States Air Force
Laurence G. Hanscom Field
Bedford, Massachusetts
ATTN: CRMCLR

AIP

American Institute of Physics
335 East 45th Street
New York, New York 10017

Amer Math Soc

American Mathematical Society
190 Hope Street
Providence 6, Rhode Island

AMS

Army Map Service - (see ACSI)

ANL - Argonne National Laboratory, Illinois
(see AEC)

Academic Press

Academic Press Incorporated
111 Fifth Avenue
New York 3, New York

APL - Applied Physics Laboratory (see Navy)

**ATD - Aerospace Technology Division (see Library
of Congress)**

AWRE - (see AEC)

RISI

British Iron and Steel Industry Translation Service
The Iron and Steel Institute
4 Grosvenor Gardens
London, S. W. 1, England

BuShips - Bureau of Ships (see Navy)

Butterworth's & Co.

Butterworth's & Company, Ltd.
7235 Wisconsin Avenue, NW
Washington, D.C.

CB

Consultants Bureau Enterprises, Incorporated
227 West 17th Street
New York, New York 10011

CPSTI

Clearinghouse for Federal Scientific and
Technical Information (Formerly Office of
Technical Services)
Port Royal and Braddock Roads
Springfield, Virginia 22151

CTT

Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DIA

Defense Intelligence Agency
Washington, D.C. 20330

Derwent Information Service

Derwent Information Service
Rochdale House, Theobolds Road
London, W.C. 1, England

Emanuel Coll Res Lang Ctr

Emanuel College Research Language Center
The Fenway
Boston, Massachusetts

FP

Paraday Press Publishers
15 Park Row
New York 38, New York

FTD - Foreign Technology Division (see AF)

HB

Henry Bratcher Technical Translations
P.O. Box 157
Altadena, California 91001

HEW - (see NIH)

IIEEE

Institute of Electrical and Electronics Engineers
275 Madison Avenue
New York, New York 10016

IPST

Israel Program for Scientific Translation
14 Shamai Street
P. O. Box 7145
Jerusalem, Israel

JHU/APL - The Johns Hopkins University/Applied Physics Laboratory (see Navy)

JPRS

U.S. Department of Commerce
Clearinghouse for Federal Scientific
and Technical Information
Joint Publications Research Service
Building Tempo E,
East Adams Drive, 4th & 6th Streets, SW
Washington, D.C. 20443

Maritime Admin

Maritime Administration
Office Services
GAO, 5th and G Streets, NW
Washington, D.C.

NASA

National Aeronautics and Space Administration
1512 H Street, NW
Washington, D.C. 20546

Matl Bu Stand

National Bureau of Standards
ATTN: Dr Henry Birnbaum
Room 314, South Building
Washington, D.C.

Navy

Department of Navy
Office of Naval Intelligence
Washington 25. D.C.

NIR

Circulation Unit
Readers Services Section
Library Branch, IRS
National Institutes of Health
Building 10, Room 5N118
Bethesda, Maryland 20014

NLL

National Lending Library
For Science & Technology
Boston Spa, Yorkshire, England

ONI - Office of Naval Intelligence (see Navy)

ORNL - Oak Ridge National Laboratory (see ABC)

OSA

Optical Society of America, Incorporated
33 University Road
Cambridge, Massachusetts 02138

OTS - (see CNETI)

Patent Office

Department of Commerce, Patent Office
Scientific Library
14th and Constitution Avenue, NW
Washington, D.C.

PP

Pergamon Press
122 East 55th Street
New York, New York 10022

RAE - (see TIL, Ministry of Aviation)

Rand Corp

Rand Corporation
ATTN: Publications Office
1700 Main Street
Santa Monica, California

SIC

Scientific Information Consultants, Limited
661 Finchley Road
London N.W.2, England

SLAC - Stanford Linear Accelerator Center - (see AEC)

UCRL

University of California
Lawrence Radiation Laboratory,
Livermore, California
(see AEC)

UERL

Office of Naval Research
U. S. Navy Underwater Sound Reference Laboratory
P.O. Box 8337
Orlando, Florida 32806

USSR

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Economic

Something New in Motor Vehicle Construction and Technology of Production, 8 pp.
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JPRS 35636

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JPRS 35596

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ACSI I-9688
ID 2204025166

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Advances in the Organization of Industrial Management and Planning, by N. E. Drogichinskii. RUSSIAN, bk, Organizatsiya Upravleniya Promyshlennost'yu i Planirovaniya na Sovremennom Etape, 1965, 150 pp.
NLL R. 39390

Soviet Construction Needs Faster Tempo, by A. Etmekdzhiyan, 11 pp.
RUSSIAN, per, Partiynaya Zhizn', No 4, Feb 1966, pp. 9-16.
JPRS 35212

Electric Power During the Forthcoming Five-Year Plan, by A. Nekrasov, 6 pp.
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JPRS 35181

Planning in Scientific Research Institutes and Design Offices, by P. D. Shoshmin, V. A. Shcherbakov.
RUSSIAN, bk, Planirovaniye v Nauchno-Izdatel'stvo "Mashinostroenie", 1964, 169 pp.
NLL R. 35241

Effective Utilization of the Natural Resources of the Yakutskaya ASSR, by V. Mel'nikov, 9 pp.
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Determining the Structure of Metalworking Equipment, by D. L'vov, 10 pp.
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Ocean of Siberian Oil: What is Needed for the Full Utilization of this Natural Wealth, by I. Karyagin.
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RUSSIAN, np, Pravda, 3 Mar 1966, pp. 1, 2, 4.

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JPRS 35671

Directives of the 23rd Party Congress As Applied to Electric Power, 5 pp.
RUSSIAN, per, Promyshlennaya Energetika, No 4, Apr 1966, pp. 2-4.

JPRS 35633

A Complex Automatic System of Plant Control and Its Economic Effectiveness, by Ya. A. Timoshenko and Ya. L. Tamarkin, 6 pp.
RUSSIAN, per, Promyshlennost' Belorussii, Jan 1966, pp. 6-8.

JPRS 35652

The Problem of Reliability and Extended Service Life of Machines, by F. Ya. Schastlivenko, 5 pp.
RUSSIAN, per, Promyshlennost' Belorussii, No 3, Mar 1966, pp. 27-29.

JPRS 35529

Starting Dates of New Chemical Installations Must Be Met, by V. Volodin, 5 pp.
RUSSIAN, np, Rabochaya Gazeta, 22 Mar 1966, p. 2.

JPRS 35744

Development of the Foreign Trade of the Socialist Countries of Europe during the Years of the People's Authority, by V. P. Goryunov and N. V. Volkov, 451 pp.
RUSSIAN, bk, Razvitiye Vneshney Torgovli Sotsialisticheskikh Stran Yevropy Za Gody Narodnoy Vlasti, No 22, Dec 1965, pp. 1-217.

JPRS 35857

Difficulties in Supplying Fruits and Vegetables, by S. Rodichev, 5 pp.
RUSSIAN, np, Sel'skaya Zhizn', 12 Mar 1966, p. 2.

JPRS 35380

Wheat Raising in the Volga Region, 5 pp.
RUSSIAN, np, Sel'skaya Zhizn', 24 Apr 1966, p. 2.

JPRS 35671

USSR
Economic (Contd)

New Perspectives in Economic Management of the Sewing Industry, by N. I. Sotnikov, 13 pp.
RUSSIAN, per, Shveynaya promyshlennost', No 1, 1966, pp. 1-7.
JPRS 35514

Minsk Engine Plant Prepares for New Planning and Incentive System, by V. Rozhkov, 6 pp.
RUSSIAN, np, Sovetskaya Belorussiya, 24 Mar 1966, p. 2.
JPRS 35780

Mathematical Models for Optimization of the Fuel-Energy Balance, by L. A. Melent'yev, 5 pp.
RUSSIAN, np, Sovetskaya Rossiya, 25 Feb 1966, p. 2.
JPRS 35743

Major Projects under Construction in Turkmenistan, by B. L'vov and I. Svirin, 5 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 13 Mar 1966, p. 1.
JPRS 35401

Problems Involving Construction Work under 1966-1970 Plan, by I. Ganichev, 8 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 20 Mar 1966, pp. 2-3.
JPRS 35462

Future Developments in the Construction Industry, by G. Bykov, 5 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 23 Mar 1966, p. 2.
JPRS 35462

Greater Use of Local Construction Materials Suggested by G. Tersh, 5 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 25 Mar 1966, p. 2.
JPRS 35462

Capital Investments Should Be Used to Increase Production of Cement Aggregates, by L. Kayser, 6 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 13 Apr 1966, p. 3.
JPRS 35742

USSR
Economic (Contd)

Sanitary Classification of Industries and Minimum Protective Zones, 26 pp.
RUSSIAN, rpt, Tekhnika Bezopasnosti i Proizvodstvennaya sanitariya, 1964, pp. 102-117.
JPRS 35243

Tasks of Ukrainian Machine Builders in 1966, 5 pp.
RUSSIAN, per, Tekhnologiya i Organizatsiya Proizvodstva, No 1, 1966, pp. 1-4.
JPRS 35382

New Railroads and Subways in 1966, by Ye. F. Kozhevnikov, 9 pp.
RUSSIAN, per, Transportnoye Stroitel'stvo, No 1, Jan 1966, pp. 1-4.
JPRS 35444

Transport Crossing in Three Levels, by A. D. Potapov, et al.
RUSSIAN, per, Transportnoye Stroitel'stvo March 1966, pp 11-14.
*ACSI J-0130
ID 2204031966

The Present Needs of the Soviet Building-Materials Industry, by P. Muromskiy, 6 pp.
RUSSIAN, np, Trud, 4 Mar 1966, p. 2.
JPRS 35693

Crash Program Work at Leningrad Vibrator Plant Criticized and Defended, by V. Antonov and N. Bakhtyukov, 5 pp.
RUSSIAN, np, Trud, 22 Mar 1966, p. 3.
JPRS 35779

Twenty Five Thousand Kilometers of Electrified Railroad Lines, 5 pp.
RUSSIAN, per, Tyaga, No 12, 1965, pp. 1-3.
JPRS 35392

Further Development of the Coal Industry in the USSR, by B. F. Bratchenko, 8 pp.
RUSSIAN, per, Ugol', No 1, 1966, pp. 1-5.
JPRS 35725

Scientific Tasks in the Development of Transport Formation of a Single Transport System for the USSR, by A. V. Gorinov, 7 pp.
RUSSIAN, per, Vestnik Akademii Nauk SSSR, No 1, Jan 1966, pp. 20-25.
JPRS 35392

USSR
Economic (Contd)

Some Problems in Transportation Power Engineering, by S. S. Ushakov, 5 pp.
RUSSIAN, per, Vestnik Akademii Nauk SSSR, No 1, Jan 1966, pp. 26-29.
JPRS 35392

Electronic Computer Equipment in Transportation, by A. P. Petrov, 8 pp.
RUSSIAN, per, Vestnik Akademii Nauk SSSR, No 1, Jan 1966, pp. 30-35.
JPRS 35392

A New System of Material Incentives at Light Industry Enterprises, by Ye. I. Kapustin, 13 pp.
RUSSIAN, per, Vestnik Moskovskogo Universiteta, No 1, Jan-Feb 1966, pp. 35-39.
JPRS 35514

Advice on Postal Service Matters, by I. P. Shamanayev, 5 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVI, No 2, 1966.
JPRS 35,865

Long Distance Telephone Links Must Be Utilized More Effectively, by V. I. Osipova, 5 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVI, No 2 1966.
JPRS 35,865

Modern Communication Equipment at the Rayon Level (A Thematic Exhibition at the Exhibition of the Achievements of the National Economy), 5 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVI, No 2, 1966.
JPRS 35,865

Patented in Our Country, by B. I. Rasin, V. A. Urvalov, 5 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVI, No 2, 1966.
JPRS 35,865

The Quality of the Work of Communications Enterprises Must Be Raised, the Economic Indices Must Be Improved, 16 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVI, No 2, 1966.
JPRS 35,865

USSR
Economic (Contd)

The New System of Planning and Economic Incentives at the Port of Odessa, by S. Veremeyev, 5 pp.
RUSSIAN, np, Vodnyy Transport, 14 Apr 1966, p. 1.
JPRS 35544

Development of Public Consumption Funds in Kolkhozes, by A. Arkhipov, 17 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 12, Dec 1965, pp. 81-93.
JPRS 35390

Procurement of Kolkhoz and Sovkhoz Products, by L. Kassirov, 11 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 1, Jan 1966, pp. 37-46.
JPRS 35391

Improving Agricultural Financing, by K. Karlov and T. Mityuchkin, 14 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 1, Jan 1966, pp. 47-58.
JPRS 35391

Economic Efficiency of Complex Processing of Wood, by A. Zheludkov, 10 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 1, Jan 1966, pp. 59-65.
JPRS 35514

Some Questions of a Rational Placement and Specialization of the Socialist Agriculture, by A. Il'yichev, 12 pp.
RUSSIAN, per, Voprosy ekonomiki, No 2, Feb 1966, pp. 67-75.
JPRS 35811

The Council of Economic Mutual Assistance and World Economics, by Yu. Belyayev, 16 pp.
RUSSIAN, per, Voprosy Ekonomiki, Jan 1966, No 1, pp. 76-85.
JPRS 35395

Economic Collaboration and Cooperation of Socialist Countries, by O. Bogomolev, 16 pp.
RUSSIAN, per, Voprosy Ekonomiki, Feb 1966, No 2, pp. 78-86.
JPRS 35922

USSR
Economic (Contd)

The Development of Water Resources in the USSR and the Price for Water, by N. Fedenko, 5 pp.
RUSSIAN, per, Voprosy Ekonomika, No 2, Feb 1966, pp. 130-132.
JPRS 35725

Structural Changes in the Machine Building Industry, by K. Vinogradov, 14 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 3, Mar 1966, pp. 24-35.
JPRS 35786

Soviet Response to Western Views on "Price Formation", by A. Malafeyev, 12 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 3, 1966, pp. 92-100.
JPRS 35773

The Scientific Interzonal Seminars on Agricultural Economics, by Ye. Lazutkin, 9 pp.
RUSSIAN, per, Voprosy ekonomiki, No 3, Mar 1966, pp. 148-151.
JPRS 35671

Proposed Five-Year Industrial Plan Enthusiastically Received in Georgia, by R. Pruidze, 7 pp.
RUSSIAN, np, Zarya Vostoka, 20 Mar 1966, pp. 1 & 2.
JPRS 35746

CEMA Permanent Commission for Machine-building, 8 pp.
RUSSIAN, np, Zarya Vostoka, 20 Apr 1966, p 1.
JPRS 3550

Railway Transport in the USSR in 1965, 12 pp.
RUSSIAN, per, Zheleznodorozhnyy Transport, No 3, Mar 1966, pp. 68-71.
JPRS 35776

Soviet Russian, Passenger Ship Traffic, 3 p.
GERMAN, per, Hansa, April 1966, pp 685.
Dept of Comm
Maritime Admin

Ensuring Flight Safety in USSR Civil Aviation, by I. V. Joludev.
SWEDISH, rpt, 27 April 1966.
DIA 1807007666

USSR
Political

A Definition of Soviet "Democracy", by G. Shakhnazarov, 5 pp.
RUSSIAN, np, Izvestiya, 19 Dec 1961.
JPRS 35628

Washington-Bonn Axis, by N. Polyanov, 5 pp.
RUSSIAN, np, Izvestiya, 18 Mar 1966, p. 2.
JPRS 35379

Izvestiya: Leninism -- The Scientific Basis for CPSU Policy, by P. Pospelov, 6 pp.
RUSSIAN, np, Izvestiya, 22 Apr 1966, p. 4.
JPRS 35512

Speech of Comrade M. V. Keldysh, President of the Academy of Sciences of the USSR, at the 23rd Communist Party Congress, 7 pp.
RUSSIAN, np, Izvestiya, 3 Apr 1966, pp. 4-5.
JPRS 35925

The 23rd Congress of the CPSU: The Leninist Way to Communism, 15 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1966, pp. 3-12.
JPRS 35761

The International Significance of the 23rd Congress of the CPSU, by V. Korionov, 21 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1966, pp. 13-25.
JPRS 35761

The Leninist Stage of Marxist Philosophy and Its Contemporary Problems, by M. Iovchuk, 17 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1966, pp. 39-49.
JPRS 35761

The Dissemination of Resolutions and Materials of the 23rd Congress of the CPSU, 7 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1966, pp. 50-53.
JPRS 35761

One Great and Powerful Family, by Akhmed Agayev, 12 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1966, pp. 64-71.
JPRS 35761

USSR
Political (Contd)

The People's Intelligentsia, by R. Logenson, 13 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1966, pp. 72-79.
JPRS 35761

V. I. Lenin in the Memoirs of His Contemporaries, by A. Tarasenko, 9 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1966, pp. 124-128.
JPRS 35761

Meeting of Aktiv of Party Organization of Armenia, 13 pp.
RUSSIAN, np, Kommunist, 22 Apr 1966, p. 3.
JPRS 35687

Estonian CP Journal: Failure of Western Policy in Nonaligned Countries, by G. Tuuder, 14 pp.
RUSSIAN, per, Kommunist Estonii, No 2, Feb 1966, pp. 81-91.
JPRS 35512

The International Situation of the USSR. The Activity of the CPSU in Foreign Affairs, 11 pp.
RUSSIAN, per, Kommunist Vooruzhennykh sil, No 8, Apr 1966, pp. 86-90.
JPRS 35848

Cooperation between Young Communists and Socialists throughout the World, by V. Lomeyko, 6 pp.
RUSSIAN, np, Komsomol'skaya Pravda, 29 Apr 1966, p. 3.
JPRS 35848

Soviet Ministry of Defense Organ: CPSU -- Party of Proletarian Internationalism, by S. Titarenko, 8 pp.
RUSSIAN, np, Krasnaya zvezda, No 311, 28 Apr 1966, pp. 2-3.
JPRS 35582

A Soviet View on Communist Internationalism, by Nikolay Molchanov, 5 pp.
RUSSIAN, np, Literaturnaya gazeta, 1 May 1966, p. 4.
JPRS 35848

USSR
Political (Contd)

Russian Economic and Political Journal: Classes and Class Struggle in the Developing Countries, by G. Mirskiy and T. Pokatayeva, 17 pp.
RUSSIAN, per, Mirovaya ekonomika i mezhdu-narodnyye otnosheniya, No 2, Feb 1966, pp. 38-49.
JPRS 35272

Centralized Industrial Administration in Odesskaya Oblast, by M. Sinitsa, 11 pp.
RUSSIAN, per, Partiynaya zhizn', No 2, Jan 1966, pp. 8-14.
JPRS 35263

More Comments on Palomares Tragedy, by Yuriy Zhukov, 5 pp.
RUSSIAN, np, Pravda, 7 Mar 1966, p. 3.
JPRS 35379

Report of the Central Control Commission of the CPSU, by N. A. Muravyova, 10 pp.
RUSSIAN, np, Pravda, 30 March 1966, pp.
JPRS 35,593

Speech of Comrade K. F. Katushev, 6 pp.
RUSSIAN, np, Pravda, 1 April 1966, page 3
JPRS 35,271

Speech by Comrade V. Ye. Chernyshev, 6 pp.
RUSSIAN, np, Pravda, 1 April 1966, p. 5
JPRS 35,271

Speech by Comrade Todor Zhivkov, 4 pp.
RUSSIAN, np, Pravda, 2 April 1966
JPRS 35,593

Speech by Comrade A. G. Buznitskiy, 5 pp.
RUSSIAN, np, Pravda, 2 April 1966, p 3.
JPRS 35,271

Speech of Comrade K. K. Nikolayev, 5 pp.
RUSSIAN, np, Pravda, 2 April 1966, pp 3,4.
JPRS 35,271

Speech of Comrade Z. P. Pukhova, 5 pp.
RUSSIAN, np, Pravda, 2 April 1966, pp 4-5.
JPRS 35,271

USSR
Political (Contd)

Speech by Comrade S. I. Vorotnikov, 5 pp.
RUSSIAN, np, Pravda, 2 April 1966 p 6.
JPRS 35,271

Speech by Comrade Henry Winston, 3 pp.
RUSSIAN, np, Pravda, 3 April 1966
JPRS 35,593

Speech by Comrade Richard Dixon, 4 pp.
RUSSIAN, np, Pravda, 4 April 1966
JPRS 35,593

Speech of Comrade F. A. Tabayev, 5 pp.
RUSSIAN, np, Pravda, 4 April 1966, pp 4-5.
JPRS 35,271

Speech of Comrade A. F. Vatchenko, 5 pp.
RUSSIAN, np, Pravda, 4 April 1966, p 5.
JPRS 35,271

Speech by Comrade L. A. Sisoyeva, 5 pp.
RUSSIAN, np, Pravda, 5 April 1966, p 5.
JPRS 35,271

Speech of Comrade A. A. Kokarev, 6 pp.
RUSSIAN, np, Pravda, 5 April 1966 p 5.
JPRS 35,271

Speech of Comrade A. F. Yeshtokin, 6 pp.
RUSSIAN, np, Pravda, 5 April 1966, pp 5-6.
JPRS 35,271

Speech of Comrade A. A. Skochilov, 6 pp.
RUSSIAN, np, Pravda, 5 April 1966, pp 6-7.
JPRS 35,271

Speech by Comrade Lebadi, 3 pp.
RUSSIAN, np, Pravda, 6 April 1966
JPRS 35,593

Speech by Comrade Arnoldo Martinez Verdugo, 4 pp.
RUSSIAN, np, Pravda, 6 April 1966
JPRS 35,593

Speech by Comrade Inga Helgason, 2 pp.
RUSSIAN, np, Pravda, 7 April 1966
JPRS 35,593

USSR
Political (Contd)

Speech by Comrade Urban Carlsson, 2 pp.
RUSSIAN, np, Pravda, 7 April 1966
JPRS 35,593

Speech by Comrade Antonio Ramirez, 3 pp.
RUSSIAN, np, Pravda, 7 April 1966
JPRS 35,593

Speech by Comrade Edgar Voog, 3 pp.
RUSSIAN, np, Pravda, 7 April 1966
JPRS 35,593

Speech by Comrade Raoul Acosta, 4 pp.
RUSSIAN, np, Pravda, 7 April 1966,
JPRS 35,593

Speech by Comrade Jose Santos, 5 pp.
RUSSIAN, np, Pravda, 7 April 1966
JPRS 35,593

Speech by Comrade K.M. Gerasimov, 5 pp.
RUSSIAN, np, Pravda, 7 April 1966
JPRS 35,593

Speech of Comrade P. P. Lobanov, 5 pp.
RUSSIAN, np, Pravda, 7 April 1966, p 3.
JPRS 35,271

Speech of Comrade G. S. Zolotukhin, 6 pp.
RUSSIAN, np, Pravda, 7 April 1966, pp 3-4.
JPRS 35,271

Speech of Comrade N. F. Vasil'yev, 5 pp.
RUSSIAN, np, Pravda, 7 April 1966, p 5.
JPRS 35,271

Speech by Comrade Dominique Urbani, 2 pp.
RUSSIAN, np, Pravda, 8 April 1966
JPRS 35,593

Speech by Comrade Henk Klerks, 2 pp.
RUSSIAN, np, Pravda, 8 April 1966
JPRS 35,593

Speech by Comrade Iazhnut Diop, 2 pp.
RUSSIAN, np, Pravda, 8 April 1966
JPRS 35,593

USSR
Political (Contd)

Speech by Comrade Bernardo Alvarado, 3 pp.
RUSSIAN, np, Pravda, 8 April 1966
JPRS 35,593

Speech by Comrade Rubens Castellanos, 3 pp.
RUSSIAN, np, Pravda, 8 April 1966
JPRS 35,593

Speech by Comrade Umberto Ramirez, 3 pp.
RUSSIAN, np, Pravda, 8 April 1966
JPRS 35,593

Speech by Comrade Armand Nicole, 4 pp.
RUSSIAN, np, Pravda, 8 April 1966
JPRS 35,593

Speech by Comrade Evremon Jeanne, 4 pp.
RUSSIAN, np, Pravda, 8 April 1966
JPRS 35,593

Speech by Comrade Ali Yata, 5 pp.
RUSSIAN, np, Pravda, 8 April 1966
JPRS 35,593

Speech by Comrade Ambroise Numazalay, 5 pp.
RUSSIAN, np, Pravda, 8 April 1966
JPRS 35,593

Speech by Comrade Tunzhi Otegbey, 5 pp.
RUSSIAN, np, Pravda, 8 April 1966
JPRS 35,593

Speech of Comrade T. Ya. Kiselev, 5 pp.
RUSSIAN, np, Pravda, 8 April 1966, p 2.
JPRS 35,271

Speech of Comrade B. P. Beshchev, 5 pp.
RUSSIAN, np, Pravda, 8 April 1966, pp 2-3.
JPRS 35,271

Speech of Comrade P. V. Urayev, 4 pp.
RUSSIAN, np, Pravda, 8 April 1966, p 3.
JPRS 35,271

Speech of Comrade R. Kurbanov, 5 pp.
RUSSIAN, np, Pravda, 8 April 1966, p 3.
JPRS 35,271

Speech of Comrade A. K. Kortunov, 5 pp.
RUSSIAN, np, Pravda, 8 April 1966, pp 3-4
JPRS 35,271

USSR
Political (Contd)

Speech of Comrade V. V. Kholyavko, 4 pp.
RUSSIAN, np, Pravda, 8 April 1966, p 4.
JPRS 35,271

Pravda: XXIII Congress Is a Demonstration
of Loyalty to Leninist Principles, by M.
Iovchuk, 5 pp.
RUSSIAN, np, Pravda, 22 Apr 1966, p. 2.
JPRS 35512

CPSU Stresses Connection between Anti-War
Demonstrations and Local Issues, by V.
Zagladin, 5 pp.
RUSSIAN, np, Pravda, 4 May 1966, p. 5.
JPRS 35649

Soviets of Workers' Deputies in the Period
of Large-Scale Construction of Communism,
by A. L. Nedavnyi, 8 pp.
RUSSIAN, per, Sovetskoye Gosudarstvo i
Pravo, No 6, Jun 1961, pp. 103-107.
JPRS 35628

Theory of the Soviet "All-National" State,
by F. M. Burlatskiy, 16 pp.
RUSSIAN, per, Sovetskoye gosudarstvo i pravo,
No 10, Oct 1962, pp. 4-13.
JPRS 35628

Improvement of the Legal Status and Coordina-
tion of the Activities of the Ministries, by
L. Ye. Lunev, 12 pp.
RUSSIAN, per, Sovetskoye gosudarstvo i pravo,
No 1, Jan 1966, pp. 8-16.
JPRS 35823

Interrelationship between the Permanent Com-
missions of the Supreme Soviet USSR and the
Presidium of the Supreme Soviet and the
Council of Ministers USSR, by O. Ye. Kutafin,
13 pp.
RUSSIAN, per, Sovetskoye Gosudarstvo i Pravo,
No 4, Apr 1966, pp. 32-40.
JPRS 35823

The Major Concern of the CPSU -- the Building
of Communism, by V. Stepanov, 9 pp.
RUSSIAN, np, Turkmeneskaya Iskra, 26 Apr 1966,
pp. 2-3.
JPRS 35848

USSR
Political (Contd)

Foreign Policy Line of CPSU Outlined, by Ya. Zharan, 7 pp.
RUSSIAN, np, Turkmeneskaya Iskra, 29 Apr 1966, pp. 2 & 3.
JPRS 35690

Activities of Foreign Societies of Friendship with the Soviet Union, by A. Ye. Ioffe, 25 pp.
RUSSIAN, per, Voprosy Istorii, No 3, 1966, pp. 15-30.
JPRS 35856

21-22 Feb 1966 Scientific-Technical Conference of Party Higher School of CC CPSU, by M. S. Akhmedov, 11 pp.
RUSSIAN, per, Voprosy Istorii KPSS, No 3, May-June 1961, pp. 224-227.
JPRS 35628

Is US War Economy Boom a Delayed Action Bomb? by V. Cheprakov, 5 pp.
RUSSIAN, np, Za Rubezhom, No 9, 25 Feb-3 Mar 1966, p. 10.
JPRS 35379

Discussion of Moscow Congress At Netherlands CP Meeting, 5 pp.
DUTCH, np, De Waarheid, 22 Apr 1966, pp. 1 & 4.
JPRS 35690

L'Humanite: Party Unity Stressed in Reports and Addresses by Foreign Communists at Twenty-Third CPSU Congress, 9 pp.
FRENCH, np, L'Humanite, 1 Apr 1966.
JPRS 35272

Isaac Deutscher Speaks on the Russian Revolution and the Future of Socialism, 5 pp.
SPANISH, np, Marcha, 4 Mar 1966, p. 17.
JPRS 35164

USSR
Military

A Month and a Half in Underwater Orbit - I
by Capt Igor' Gromov, 5 pp.
RUSSIAN, np, Izvestiya, No 86 (15174) 12 Apr 1966, p. 4.
JPRS 35239

A Month and A Half in Underwater Orbit - II
by Capt Igor' Gromov, 5 pp.
RUSSIAN, np, Izvestiya, No 89 (15177) 15 Apr 1966, p. 4.
JPRS 35239

Capability and Reality in Combat, by Lt. Col. G. Telyatnikov, 8 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 24, Dec 1965, pp. 38-43.
JPRS 35667

Combat Training of Rocket Troops, by G. Perekhod'skiy, 6 pp.
RUSSIAN, per, Kommunist Vooruzh Sil, No 3, 1966, pp. 24-28.
JPRS 35587

Attention and Its Development, by I. Petrov and V. Pirozhkov, 8 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 5, 1966, pp. 64-71.
JPRS 35443

The Training of Military Engineers in Economics, by I. Pokhorenko, 7 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 5, 1966, pp. 47-51.
JPRS 35443

The Morale Factor and Ways of Forming It, by Col. I. Seleznev, 13 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 6, 1966, pp. 66-73.
JPRS 35844

Soviet Views on Modern Military Strategy, by V. Sokolovskiy, 12 pp.
RUSSIAN, per, Kommunist vooruzhennykh sil, No 7, Apr 1966, pp. 59-66.
JPRS 35219

Study Combat Experience Assiduously and Use It Creatively, by Col. V. Kotov, 9 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 8, Apr 1966, pp. 73-78.
JPRS 35775

USSR
Military (Contd)

Experience Gained in World WAR II Should Be Studied for Present Training of Personnel, by Col. I. Yefremov, 10 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 8, Apr 1966, pp. 78-84.
JPRS 35775

Around the World in Atomic Submarines - I by Capt G. Savichev, 6 pp.
RUSSIAN, np, Krasnaya zvezda, No 84 (12915) 10 Apr 1966, p. 6.
JPRS 35239

Around the World in Atomic Submarines- II by Capt G. Savichev, 5 pp.
RUSSIAN, np, Krasnaya zvezda, No 86 (12917) 13 Apr 1966, p. 6.
JPRS 35239

Around the World in Atomic Submarines - III by Capt G. Savichev, 5 pp.
RUSSIAN, np, Krasnaya zvezda, No 88 (12919) 15 Apr 1966, p. 4.
JPRS 35239

Around the World in Atomic Submarines - IV by Capt G. Savichev, 6 pp.
RUSSIAN, np, Krasnaya zvezda, No 90 (12921), 17 Apr 1966, p. 4.
JPRS 35239

Speech by Army General A. A. Yepishev, 8 pp.
RUSSIAN, np, Krasnaya Zvezda, 21 May 1966, p. 2.
JPRS 35750

Ministry of Defense USSR Conference on Military Patriotic Education of Soviet Youth, 13 pp.
RUSSIAN, per, Krasnaya Zvezda, 25 May 1966, p. 3.
JPRS 35921

Marxism-Leninism on Warfare and the Army, by N. Ya. Sushko and S. A. Tyushkevich, 315 pp.
RUSSIAN, bk, Marksizm-Leninizm o Voyne i Armii, 1965, pp. 2-333.
JPRS 35777

USSR
Military (Contd)

Non-Proliferation of Nuclear Arms Still Primary Task, by V. Nekrasov, 6 pp.
RUSSIAN, per, Mirovaya Ekonomika i Mezhdunarodnyye Otnosheniya, No 3, Mar 1966, pp. 103-105.
JPRS 35379

Trends Evident in the Development of Navies, by N. M. Kharlamov, 7 pp.
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JPRS 35216

Certain Aspects of Naval Operations in Modern Warfare, by Yu. A. Panteleyev, 9 pp.
RUSSIAN, per, Morskoy Sbornik, No 2, Feb 1966, pp. 27-34.
JPRS 35216

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JPRS 35465

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RUSSIAN, per, Morskoy Sbornik, No 3, Mar 1966, pp. 32-38.
JPRS 35465

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JPRS 35465

Decision Theory and Command, by V. S. Pirumov, D. S. Rall', and R. I. Trukhayev, 9 pp.
RUSSIAN, per, Morskoy Sbornik, No 4, 1966, pp. 20-26.
JPRS 35528

Daily Life and Training on Board of Soviet Submarine, by A. A. Syagayev, 7 pp.
RUSSIAN, per, Morskoy Sbornik, No 4, 1966, pp. 33-40.
JPRS 35528

USSR
Military (Contd)

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JPRS 35528

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RUSSIAN, per, Morskoy Sbornik, No 4, 1966, pp. 52-55.
JPRS 35528

Scientists Suggest Additions To the Draft Directives, 5 pp.
RUSSIAN, np, Pravda, 15 Mar 1966, p. 1.
JPRS 35832

Premilitary Training Must Be Intensified, by P. Andreyev, 5 pp.
RUSSIAN, np, Sovetskiy Patriot, 27 Apr 1966, p. 3.
JPRS 35731

The Role of the Military Registration and Enlistment Offices in the Training and Induction of Young People into the Soviet Armed Forces, by G. Arik, 6 pp.
RUSSIAN, np, Sovetskaya Belorussiya, 24 Apr 1966, p. 3.
JPRS 35844

Sixth Plenum of CC DOSAAF, 6 pp.
RUSSIAN, np, Sovetskiy Patriot, 22 May 1966, pp. 1 & 3.
JPRS 35771

Report by DOSAAF CC Chairman A. L. Getman at 6th Plenum of CC DOSAAF, 10 pp.
RUSSIAN, np, Sovetskiy Patriot, 22 May 1966, p. 2.
JPRS 35771

Decisions of the 23rd CPSU Congress and Tasks of DOSAAF Organizations, 6 pp.
RUSSIAN, np, Sovetskiy Patriot, 22 May 1966, p. 3.
JPRS 35771

Report to the Armed Forces by Marshal Zakharov Concerning the Work of the 23rd Party Congress, by M. Zakharov, 10 pp.
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JPRS 35844

USSR
Military (Contd)

Living Conditions of Soviet Submariners Are Examined, by V. Padkin, 5 pp.
RUSSIAN, per, Tyl i Snabzheniye Sovetskikh Vooruzhennykh Sil, No 2, Feb 1966, pp. 48-52.
JPRS 35216

Special Classes for Instructing Military Personnel on Troop Movements by Rail and Water, by M. Netiksa, 6 pp.
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JPRS 35338

Some Questions on Economy of Operation in Military Enterprises, by M. Bababakov, 7 pp.
RUSSIAN, per, Tyl i Snabzheniye Sovetskikh Vooruzhennykh Sil, No 3, 1966, pp. 49-54.
JPRS 35338

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RUSSIAN, per, Tyl i Snabzheniye Sovetskikh Vooruzhennykh Sil, No 3, 1966, pp. 73-80.
JPRS 35338

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RUSSIAN, per, Tyl i Snabzheniye Sovetskikh Vooruzhennykh Sil, No 4, 1966, pp. 50-54.
JPRS 35775

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RUSSIAN, per, Vestnik Protivovozdushnoy Oborony, No 1, Jan 1966, pp. 43-47.
JPRS 35216

"Abstracts and Translations from Air Defense Journal", 32 pp.
RUSSIAN, per, Vestnik Protivovozdushnoy Oborony, No 3, Mar 1966, pp. 1-96.
JPRS 35436

Abstracts and Translations from Air Defense Journal, 31 pp.
RUSSIAN, per, Vestnik Protivovozdushnoy Oborony, No 4, Apr 1966, pp. 1-90.
JPRS 35770

USSR
Military (Contd)

Features Characterizing the Strategic Offense of the Soviet Armed Forces during the Great Patriotic War, by N. Pavlenko, 20 pp.
RUSSIAN, per, Voyenno-Istoricheskiy Zhurnal, No 3, 1966, pp 9-23.
JPRS 35587

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RUSSIAN, per, Voyenno-istoricheskiy Zhurnal, Vol 3, Mar 1966, pp. 24-44.
JPRS 35580

The Submarines Attack! (Book Review), by F. Chernyshev, Yu. Maksimov, 7 pp.
RUSSIAN, per, Voyenno Istory Zhur, No 3, 1966, 85-88.
JPRS 35587

The Invincible Might of the Soviet State, 8 pp.
RUSSIAN, per, Voyenno-Istoricheskiy Zhurnal, No 4, 1966, pp. 3-8.
JPRS 35775

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JPRS 35775

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JPRS 35216

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RUSSIAN, per, Voyenny Vestnik, No 4, Apr 1966, pp. 53-57.
JPRS 35484

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RUSSIAN, per, Voyennyye Znaniya, No 3, Mar 1966, pp. 4-5.
JPRS 35229

USSR
Military (Contd)

Improvement of Civil Defense Training, by Lt. Gen. G. Malinin, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, No 3, Mar 1966, pp. 19-20.
JPRS 35229

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RUSSIAN, per, Voyennyye Znaniya, No 3, Mar 1966, pp. 22-23.
JPRS 35229

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RUSSIAN, per, Voyennyye Znaniya, No 4, Apr 1966, p. 12.
JPRS 35726

Western Theories of "Limited" Wars, by Aleksandr Yefremovich Yefremov, 50 pp.
RUSSIAN, bk, Za Shirmoy "Organichennykh" Voin, 1960, pp. 2-84.
JPRS 35796

Geographic

Generics Yavr, Yagr, Yakh (Meaning "Lake") Found in the Northern Part of Russia (The Use of Physical Geography Data in Toponymic Research), by A. K. Matveyev.
RUSSIAN, per, Iz Ak Nauk SSSR, No 6, 1965, pp 17-22.
*ACSI I-9979
ID 2204009266

Conference on Geomorphological Mapping Problems by the Geomorphologic Map Subcommission of the International Geographical Association, by N. V. Dumitashko, 6 p.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, No 4, 1965.
ANS No G23, 1965, No 4

USSR
Geographic (Contd)

On Certain Questions of Cartography of Natural Resources, by N. F. Leont'yev, 60 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograficheskaya, No 4, 1965, pp 54-60.
ACSI I-9348C
ID 2204014966

Logical and Cartographical Forms of Region Classification and the Problems of Their Study, by B. B. Rodoman, 60 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograficheskaya, 1965, No 4, pp 113-126.
ACSI I-9348A
ID 2204014966

The Fifth Plenary Session of the Geomorphological Commission, 60 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograficheskaya, No 4, 1965, pp 136-154.
ACSI I-9348B
ID 2204014966

Vladivostok Guidebook, by S. Nikolayev.
RUSSIAN, rpt, Putevoditel' po Vladivostoku, 1965.
DIA LN 86-66
ID 2901025565-V

Some Questions in the Methodology of Conducting Winter Training Practicums for Physical Geography Students, by V. B. Ivanov, 16 pp.
RUSSIAN, per, Vestnik Leningradskogo Universiteta, Ser Geologii i Geografii, Vol III, 1964, pp 112-112.
ACSI I-9349B
ID 2204015066

Present Methods for Compiling Facies Maps, by Ye. M. Lyutkevich, 7 p.
RUSSIAN, per, Vestnik Leningradskogo Universiteta, Seriya Geologii i Geografii, No 12, 1965.
ANS No Q4, VS8, 1965, No 2

Indentification of Mountain Mud [Erosion] Streams on Aerial Photographs, by G. N. Golub'yev, I. A. La'yentina.
RUSSIAN, per, Vestnik Moskovskogo Universiteta, No 1, 1966, pp 48-53.
*ACSI I-9981
ID 2204028666

USSR
Sociological

Training and Job Placement of Graduates of Non-Specialized Schools in Azerbaijan, 5 pp.
RUSSIAN, np, Bakinskiy Rabochiy, 8 Mar 1966, p. 1.
JPRS 35396

Entry on "Islam" in Great Soviet Encyclopedia, 7 pp.
RUSSIAN, per, Bol'shaya Sovetskaya Entsiklopediya, Vol 18, 8 Jan 1953, pp. 516-519.
JPRS 35820

Recent Official Decrees on Soviet Education, 9 pp.
RUSSIAN, per, Bulleten' Ministerstva vysshego i srednego spetsial'nogo obrazovaniya SSR, No 4, Apr 1966, pp. 5-10.
JPRS 35794

Incentive Pay for Employees, by S. Shkurko, 7 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 8, Feb 1966, pp. 21-22.
JPRS 35543

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RUSSIAN, np, Ekonomicheskaya Gazeta, No 8, Feb 1966, p. 27.
JPRS 35543

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JPRS 35543

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JPRS 35543

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JPRS 35396

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RUSSIAN, np, Ekonomicheskaya Gazeta, No 11, Mar 1966, pp. 26-28.
JPRS 35380

USSR
Sociological (Contd)

Comments on Plans for Higher and Intermediate Special Education To Aid Production, by V. Yelyutin, 9 pp.
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JPRS 35597

The Need for Better Labor Organization, by G. Zinchenko and M. Leptin, 5 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 15, Apr 1966, p. 41.
JPRS 35746

Working Conditions at the Nizhniy Tagil Davidov Copper Mine in the Nineteenth and First Part of the Twentieth Century, by M. A. Markin, 6 pp.
RUSSIAN, per, Gigiyena truda i professional'nyye zabolevaniya, Vol 10, No 1, 1966
JPRS 35,648

Fortifying the Role of Universities in Scientific Research and the Training of Cadres, by M. Nuzhin, 5 pp.
RUSSIAN, np, Izvestiya, 24 Mar 1966, p. 4.
JPRS 35562

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RUSSIAN, np, Izvestiya, 22 Apr 1966, p. 4.
JPRS 35595

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JPRS 35597

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JPRS 35597

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RUSSIAN, per, Kommunist, No 6, Apr 1966, pp. 80-89.
JPRS 35761

USSR
Sociological (Contd)

The October Revolution in Soviet Scientific Literature, by A. Andreyev and P. Sobolev, 11 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1966, pp. 119-123.
JPRS 35761

Soviet Linguists Seek Univ Language Trans Code, by I. Makrushenko.
RUSSIAN, per, Leningradskaya Pravda, 12 Jun 1964, p 4.
*FTD-HT-66-343

Calculation for the Abstract Pupil, by V. Sukhomlinsky, 6 pp.
RUSSIAN, per, Literaturnaya Gazeta, 27 Jan 1966, p. 2.
JPRS 35501

The Problems of Scientific Organization of Labor, by V. D. Skugarev, 5 pp.
RUSSIAN, per, Morskoy Sbornik, No 3, Mar 1966, pp. 38-46.
JPRS 35465

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JPRS 35501

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JPRS 35501

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JPRS 35708

Labor Polytechnical Training, by E. A. Paraponova and N. Ye. Tseytlin, 10 pp.
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JPRS 35708

Older Than Islam, by T. Suleymanova, 5 pp.
RUSSIAN, per, Nauka i Religiya, No 3, Mar 1966, pp. 62-64.
JPRS 35496

USSR
Sociological (Contd)

Communism Versus the Teachings and Practices of the Koran, by T. Saidbayev, 6 pp.
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pp. 48-52.
JPRS 35704

Employment of Juveniles, by A. Fastikovskiy,
7 pp.
RUSSIAN, per, Okhrana Truda i Sotsial'noye
Strakhovaniye, No 2, 1966, pp. 30-31.
JPRS 35390

Productivity of Social Labor Depends on Introducing Scientific Achievements in Industry, by Prof. I. Mayevskiy, 15 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 3, Mar 1966, pp. 11-20.
JPRS 35541

Soviet Science: Achievements and Prospects, by M. V. Keldysh.
RUSSIAN, np, Pravda, Feb. 4, 1965, p 2.
NLL Shelfmark 0131.2 R

Complaints about Soviet Television Sets, by V. Rusakova and V. Popov, 6 pp.
RUSSIAN, np, Pravda, 16 Feb 1966, p. 4.
JPRS 35722

Social Scientists Must Raise the Level of Their Work, by S. Kobalev, 6 pp.
RUSSIAN, np, Pravda, 6 May 1966, pp. 2-3.
JPRS 35848

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RUSSIAN, np, Rabochaya gazeta, 15 Apr 1966, p. 2.
JPRS 35390

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JPRS 35501

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JPRS 35501

USSR
Sociological (Contd)

A Course in Basic Principles for Polytechnical Labor Training, by M. Z. Akmalov, 7 pp.
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JPPS 35501

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JPRS 35390

Shortening of Instruction Period at Moscow Institute of Culture by Yu. Lesokhin, 6 pp.
RUSSIAN, np, Sovetskaya Kul'tura, 19 Feb 1966, p. 2.
JPRS 35396

General Meeting of the Academy of Pedagogical Sciences RSFSR, 29 pp.
RUSSIAN, per, Sovetskaya Pedagogika, No 2, 1966, pp. 8-29.
JPRS 35501

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JPRS 35396

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JPRS 35543

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JPRS 35543

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JPRS 35390

USSR
Sociological (Contd)

Criminological Identification in the Theory of Judicial Evidence, by A. I. Vinberg and A. A. Eysman, 12 pp.
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JPRS 35232

The State's Concern for Soviet Man, by L. M. Volodarskiy, 5 pp.
RUSSIAN, np, Trud, 6 Mar 1966, p. 2.
JPRS 35597

Problems of Labor Resources, by G. Skoretskiy, 5 pp.
RUSSIAN, np, Trud, 10 Mar 1966, p. 3.
JPRS 35597

Teacher Training at Turkmen State Pedagogical Institute, by K. Mukhammedberdiyyev, 5 pp.
RUSSIAN, nps, Turkmeneskaya Iskra, 2 Feb 1966, p. 3.
JPRS 35501

The Administration of Public Education, by G. A. Dorokhova.
RUSSIAN, bk, Upravleniye Narodnym Obrazovaniyem, 1965, pp 1-178.
*JPRS/DC-12444

Training of Specialists in Meteorology, Hydrology, and Oceanology at Moscow State University, by Ye. K. Fedorov, 10 p.
RUSSIAN, per Vestnik Moskovskogo Universiteta, Seriya v Geografiya, No 4, 1964.
ANS No G1, V58, Ser. 5, No 4, 1964

Basis Features of the New Curriculum, by A. M. Ryabchikov, 10 p.
RUSSIAN, per, Vestnik Moskovskogo Universiteta, Seriya v Geografiya, No 4, 1964, pp 9-14.
AIS No G1, V58, Ser. 5, 1964, No 4

Statistical Data on Labor Skills and Wages, 7 pp.
RUSSIAN, per, Vestnik statistiki, No 3, 1966, pp. 92-96.
JPRS 35779

USSR
Sociological (Contd)

The Problem of Appraising Labor in Kolkhozes, by A. Avraamova, 5 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 12, Dec 1965, pp. 147-149.
JPRS 35390

Some Problems of Preparing and Utilizing Labor Resources in CEMA Countries, by M. Os'mova, 12 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 1, Jan 1966, pp. 105-112.
JPRS 35395

"Islamic Ethics" and Its Social Significance, by M. T. Stepanyants, 13 pp.
RUSSIAN, per, Voprosy Filosofii, No 2, 1966, pp. 100-109.
JPRS 35505

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RUSSIAN, per, Voprosy Psichologii, No 2, Mar/Apr 1966, pp. 131-138.
JPRS 35833

The USSR and the Vatican, by Giuseppe Boffa, 6 pp.
ITALIAN, np, L'Unita, May 8, 1966, p. 14.
JPRS 35848

Biographic

Anniversaries-Academician I. P. Gerasimov: Sixtieth Birthday and Forty Years of Scientific Work, RUSSIAN, per, Iz Ak Nauk SSSR, No 6, 1965, pp 133-142.
*ACSI I-9978
ID 2204009166

Winners of 1966 Lenin Prizes, by M. V. Keldysh, 5 pp.
RUSSIAN, np, Pravda, 22 Apr 1966, p. 3.
JPRS 35793

EASTERN EUROPE

Eastern Europe
Economic (Contd)

Economic

The Style and Work Method in Planning the National Economy Should Be Suited To New Conditions and Demands, 10 pp.
ALBANIAN, per, Ekonomia Popullore, No 1, Jan 1966, pp. 3-12.
JPRS 35510

Strengthening and Improving the Work of Establishing Prices on the Basis of the Principle of Democratic Centralism, by Fiqri Sinoimeri, 10 pp.
ALBANIAN, per, Ekonomia Popullore, No 1, Jan 1966, pp. 19-28.
JPRS 35510

Plan for Development of Agriculture Outlined by Minister, by Pirro Dodbiba, 9 pp.
ALBANIAN, np, Zeri i Popullit, 30 Mar 1966, pp. 1 & 3.
JPRS 35233

Duties of Transportation Workers Outlined, by Milo Qirko, 5 pp.
ALBANIAN, np, Zeri i Popullit, 21 Apr 1966, p. 3.
JPRS 35510

Decree of Perfecting the Organization and Management of Construction in the Transition to the New National Economic System of Planning and Management of the National Economy, 12 pp.
BULGARIAN, per, Durzhaven vestnik, No 28, 8 Apr 1966, pp. 1-3.
JPRS 35607

Efficient Use of Fuels and Power, by Petur Kutov, 7 pp.
BULGARIAN, per, Energetika, No 1, Jan 1966, pp. 15-18.
JPRS 35208

Some Incongruities in the Machinery of the New System of Planning and Management of the National Economy, by Danail Georgiev, 10 pp.
BULGARIAN, per, Finansi i kredit, No 2, Mar 1966, pp. 13-20.
JPRS 35608

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BULGARIAN, per, Finansi i kredit, No 2, Mar 1966, pp. 21-33.
JPRS 35606

Increasing the Effectiveness of Capital Investment, an Important Function of Bank Control in the New System of Planning and Management, by Ivan Ang. Popov, 8 pp.
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JPRS 35608

Taxes As An Economic Lever in the New System of Planning and Management of the National Economy, by Prof. Stancho Cholakov, 9 pp.
BULGARIAN, per, Finansi i kredit, No 2, Mar 1966, pp. 48-56.
JPRS 35608

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BULGARIAN, per, Geografiya, No 1, Jan-Mar 1966, pp. 6-8.
JPRS 35478

Result of Forest Inventory Taken in 1965, by Aleksandur Manolov and Tsvetana Sokolova, 8 pp.
BULGARIAN, per, Gorsko stopanstvo, No 3, Mar 1966, pp. 4-9.
JPRS 35799

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JPRS 35479

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JPRS 35479

Eastern Europe
Economic (Contd)

The Law of Value and the Forming of Prices of Agricultural Products, by Gencho Genchev, 17 pp.
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JPRS 35487

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JPRS 35479

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BULGARIAN, per, Novo vreme, No 4, Apr 1966, pp. 111-113.
JPRS 35479

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JPRS 35536

New Funds on Cooperative Farms, by Geno Dobrev, 6 pp.
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JPRS 35536

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BULGARIAN, per, Otchetnost i kontrol, No 4, Apr 1966, pp. 180-182.
JPRS 35536

Some Problems in Turnover Taxes, by Bistra Dimova, 13 pp.
BULGARIAN, per, Planovo stopenstvo i statistika, No 2, Feb 1966, pp. 31-41.
JPRS 35236

Soviet Bloc Symposium on Planning for Engineering and Natural Sciences Personnel, by Todor Avramov, 6 pp.
BULGARIAN, per, Planovo stopenstvo i statistika, No 2, Feb 1966, pp. 77-80.
JPRS 35375

Eastern Europe
Economic (Contd)

Results in the Fulfillment of the State Plan for the Development of the National Economy of Bulgaria in 1965, 21 pp.
BULGARIAN, np, Rabotnicheskoe Delo, 29 Jan 1966, pp. 1-2.
JPRS 35645

The National Economic Plan for 1966 and Its Construction Tasks, 7 pp.
BULGARIAN, per, Stroitelstvo, No 1, Jan 1966, pp. 1-3.
JPRS 35424

Problems in Construction under the New System of Planning and Management in the National Economy, by Engr. Gr. Traykov, 9 pp.
BULGARIAN, per, Stroitelstvo, No 2, Feb 1966, pp. 1-4.
JPRS 35806

The New System of Planning and Management in Ore Extraction, by Vasil Velchev, 8 pp.
BULGARIAN, per, Trud i tseni, No 1, Jan 1966, pp. 53-60.
JPRS 35482

The Distribution of the Wage Fund in Industrial Enterprises, by Todor Dukov, 7 pp.
BULGARIAN, per, Trud i tseni, No 2, Feb 1966, pp. 12-18.
JPRS 35479

The New System of Planning and Management As Applied in Automobile Transportation, by Sergi Spasov and Dimitur Molle, 14 pp.
BULGARIAN, per, Trud i tseni, No 3, Mar 1966, pp. 14-24.
JPRS 35478

First Yugoslav Ships for Israel Being Constructed in Split, by Igor Belmaric, 10 pp.
CROATIAN, per, Brodogradnja, No 4-6, Sept-Dec 1965, pp. 105-111.
JPRS 35375

Implementing the New System of Management in Czechoslovak State Motor Transport, by Jan Dufek, 12 pp.
CZECH, per, Doprava, No 1, 1966, pp. 1-5.
JPRS 35235

Eastern Europe
Economic (Contd)

in Trends in the Development of Public Motor
transport through 1970, by Josef Dykast,
pp.
ECH, per, Doprava, No 1, 1966, pp. 6-11.
RS 35235

le of Czechoslovak State Bank, by Engr
clav Zahalka, 10 pp.
ECH, per, Nova Mysl, No 6, Vol 20, 22 Mar
56, pp. 18-21.
RS 35801

Compensation Fund and Gross Income on
ate Farms, by F. Crkva, 10 pp.
ECH, per, Statni Statky, Vol IX, No 3,
c 1966, pp. 40-43.
S 35799

Manufacture of Synthetic Tanning Agents,
J. Ponc, V. Navratil, et al.
CH, Patent 106915, 3 pp.
SI J-0129
2204031866

ing Tasks in the Construction Materials
ustry, by O. Jeske, 9 pp.
MAN, per, Baustoffindustrie, No 3, Mar
6, pp. 65-68.
S 35424

t German Agricultural Policy, by Dr.
h Walter, 8 pp.
MAN, per, Deutsche Finanzwirtschaft,
6, Mar 1966, pp. 13-15.
S 35434

blems of Balancing State Budget and Credit
the German Democratic Republic, by Karl-
inz Stiemerling, 10 pp.
MAN, per, Einheit, No 3, Mar 1966, pp.
.320.
S 35206

for Conditions for Inland
igation, 7 pp.
AN, rpt, Jahrbuch der Schifffahrt
, April 1965, pp 25-28.
LN 221-66

arch and Development, by G. Kittel
AN, per, Kraftfahrzeugtechnik, No 2,
pp 45-50.
I J-0122
204031366

Eastern Europe
Economic (Contd)

Metallurgy of Electron-beam Melting -
Part II - Evaporation Phenomena In the
200-KW Electron-Beam Multi-Chamber Furnace,
by Gerhardt Scharf, Fred Easser and Dieter
Rumberg, 25 pp.
GERMAN, per, Neue Huette, Vol XI, No 1,
1966, pp. 19-27.
JPRS 35207

Greater Efficiency of Investments in Basic
Materials Industry, by Guenter Wyschofsky,
6 pp.
GERMAN, np, Presseinformationen, 25 Mar 1966,
pp. 3-5.
JPRS 35824

Relations between East German Radio and Tele-
vision Services and Foreign Countries, by
Peter Probst, 14 pp.
GERMAN, per, SBZ Archiv, No 5, Mar 1966,
pp. 70-74.
JPRS 35235

War Economy. Electric Blankets and Carpets.
GERMAN, per, Der Spiegel, No 17, 1966,
pp 84-88.
*ABC ORNL-tr-1255

Results of the Twelfth Session of the CEMA
Permanent Commission for Standardization, by
G. Taeubrich, 5 pp.
GERMAN, per, Standardisierung, No 3, Mar
1966, pp. 128-130.
JPRS 35608

Problems of Determining the Economic Level
of the Chemical Industry with Regard to
International Comparison between Socialist
Countries (II), by Wolfgang Kavelke, 6 pp.
GERMAN, per, Statistische Praxis, Vol XX,
No 12, Dec 1965, pp. 514-515.
JPRS 35802

On the Development Trend of the Specific
Capital Expense for Chemical Plants under
the Influence of Technical Progress (II)
by Helmut Roscher, 9 pp.
GERMAN, per, Statistische Praxis, Vol XX,
No 12, Dec 1965, pp. 519-522.
JPRS 35802

Eastern Europe
Economic (Contd)

Microbie Heavy Workers in Action, by F. Claus,
8 pp. GERMAN, per, Technische Gemeinschaft, 13,
(1965), II. 10, pp. 8-12.
ACSI I-9312
ID 2204012766

The Work of the Research Section
of the Packaging Institute in
Dresden, by H. J. Tenzer, 15 pp.
GERMAN, per, Die Verpackung, Nov/Dec
1964, pp 20/23.
ACSI I-7863
ID 2204038665

Tasks of the GDR Council of Ministers and of
the Industrial Ministries in the Second Stage
of the New Economic System of Planning and
Management, by Dr. Gerhard Schussler, 10 pp.
GERMAN, per, Vertrags System, No 4, Apr 1966,
pp. 195-200.
JPRS 35801

Enlargement of East Berlin's Johannisthal
Waterworks, by Dr. Eng. Rudolf Randolph, 13 pp.
GERMAN, per, Wasserwirtschaft-Wassertechnik,
No 3, Mar 1966, pp. 80-86.
JPRS 35424

Problems Inherent in Future Work on Long-
Range Plan, by Gerhard Schurer, 11 pp.
GERMAN, per, Die Wirtschaft, 24 Mar 1966,
pp. 4-5.
JPRS 35537

International License Relations -- An
Important Branch of Foreign Trade, 8 pp.
GERMAN, per, Die Wirtschaft, No 3, Mar
1966, pp. 8-9.
JPRS 35481

Great Investment Savings through Rationaliza-
tion Credits, by Werner Schilke, 5 pp.
GERMAN, per, Die Wirtschaft, No 13, 31
Mar 1966, p. 14.
JPRS 35537

Training of Leadership Cadres for the Com-
prehensive Building of Socialism, 8 pp.
GERMAN, per, Die Wirtschaft, No 15, 14 Apr
1966, pp. 8-9.
JPRS 35608

Eastern Europe
Economic (Contd)

East Germany's Construction Output, 5 pp.
GERMAN, per, Wochen Bericht, 6 May 1966,
pp. 83-85.
JPRS 35806

Development Stages of the International Tele-
communications Network of the OSZnD Members,
by R. Opitz, 6 pp.
GERMAN, per, Zeitschrift fur die Zusammenar-
beit der Eisenbahnen OSShD, No 1, Jan-Feb
1966, pp. 6-8.
JPRS 35424

Reports on OSZnD Committee Work, 6 pp.
GERMAN, per, Zeitschrift fur die Zusammenar-
beit der Eisenbahnen OSShD, No 1, Jan-Feb
1966, pp. 17-29.
JPRS 35424

Organization At the Enterprises - National
Conference on Plant Organization, 6 pp.
HUNGARIAN, per, Folyelo, 2 Mar 1966,
p. 5.
JPRS 35479

First Experience in Economic Programming,
by J. Kornai, G. Bager and J. Rimler, 6 pp.
HUNGARIAN, per, Folyelo, 30 Mar 1966, p. 3.
JPRS 35206

The Two Phases of the Price Debate in
Hungary, by Bela Csikos-Nagy, 16 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, No 4,
Apr 1966, pp. 393-404.
JPRS 35801

The Tasks of the Railroad in 1966, by Karoly
Rodanyi, 10 pp.
HUNGARIAN, per, Kozlekedesi Kozlony, No 8,
20 Feb 1966, pp. 123-126.
JPRS 35607

Investment Experiences in the Development
of the Hungarian Chemical Industry during the
Second Five-Year Plan, by Gyule Szeker,
Tamas Levai, and Sandor Gor-Nagy, 16 pp.
HUNGARIAN, per, Magyar Kemikusok Lapja, Vol
21, No 2, Feb 1966, pp. 57-63.
JPRS 35488

Eastern Europe
Economic (Contd)

Economic Aspects of Rice Production, by Geza Gazdag, 6 pp.
HUNGARIAN, per, Megyai Mezogazdasag, No 14, 6 Apr 1966, p. 15.
JPRS 35799

Principal Features of the Credit and Money Circulation System in the New Economic Mechanism, by Zoltan Filipszky, 15 pp.
HUNGARIAN, per, Penzugyi Szemle, Vol 2, Feb 1966, pp. 107-118.
JPRS 35479

The Price of Grains and the Grain Problem, by Antoni Leopold, 9 pp.
POLISH, per, Gospodarka Planowa, No 4, Apr 1966, pp. 36-39.
JPRS 33799

Mineral Fertilizer in Agriculture in 1966-1970, by Halina Wlodarczyk and Mieczyslaw Zawadzki, 8 pp.
POLISH, per, Gospodarka Planowa, No 4, Apr 1966, pp. 48-51.
JPRS 35799

Some Problems in Developing the Area of Turoszow, by Miroslaw Musial, 9 pp.
POLISH, per, Gospodarka Planowa, No 4, Apr 1966, pp. 51-55.
JPRS 35824

Possibility of Producing Petrochemical Naphthalene At the Plock Combine, by E. Siembab and T. Westfalewicz, 5 pp.
POLISH, per, Koks, Smola, Gaz, No 6, Nov-Dec 1965, pp. 292-294.
JPRS 35208

Ursus Tractors and Farm Motors, 7 pp.
POLISH, per, Mechanizacja Rolnictwa, No 6, 16-31 Mar 1966, pp. 7-10.
JPRS 35599

The Organization of Intra-Circle Machine Bases (MBM), by Inz. Tadeusz Dojutrek, 9 pp.
POLISH, per, Mechanizacja Rolnictwa, No 7, 1-15 Apr 1966, pp. 8-11.
JPRS 35599

Eastern Europe
Economic (Contd)

The Situation in Agricultural Land Turnover in Poland, by Dr. Czeslaw Farkowski, 6 pp.
POLISH, per, Nowe Rolnictwo, No 5, 1-15 Mar 1966, pp. 13-16.
JPRS 35182

Some Forms of Land Turnover in Peasant Farms, by Magister Anna Szemberg, 7 pp.
POLISH, per, Nowe Rolnictwo, No 5, Mar 1966, pp. 16-18.
JPRS 35182

CEMA Scientific and Technical Cooperation in Machine Building Industry, by Zygmunt Keh, 7 pp.
POLISH, per, Przeglad Mechaniczny, No 5, 10 Mar 1966, pp. 130-132.
JPRS 35375

Current Problems of Polish-Soviet Cooperation in the Chemical Industry, by E. Zawada, 9 pp.
POLISH, per, Przemysl Chemiczny, No 2, Feb 1966, pp. 49-51.
JPRS 35207

Foreign Trade and Domestic Market, by K. Krasucka, 6 pp.
POLISH, per, Zagadnienia i Materiały, No 6, 16-31 Mar 1966, pp. 25-29.
JPRS 35378

Domestic Trade Problems in 1966-1970, by Stanislaw Budziszewski, 6 pp.
POLISH, np, Zycie Gospodarcze, 8 May 1966, No 19, pp. 1-2.
JPRS 35806

Problems in the Footwear Industry, by Antoni Gutowski, 8 pp.
POLISH, np, Zycie Gospodarcze, No 19, 8 May 1966, pp. 1, 6-7.
JPRS 35806

The Clothing Industry and the Clothing Market Supply, by Barbara Wisniewska, 5 pp.
POLISH, np, Zycie Gospodarcze, No 20, 15 May 1966, pp. 1, 4.
JPRS 35806

Eastern Europe
Economic (Contd)

Criteria for Evaluation of PGRs, by Tadeusz Rychlik, 7 pp.
POLISH, np, Zycie Gospodarcze, No 20, 15 May 1966, p. 6.
JPRS 35799

The 1966 General Meeting of the Rumanian Academy, by Mihai Mozanet, 7 pp.
RUMANIAN, np, Contemporanul, 15 Apr 1966, p. 8.
JPRS 35764

Rumania's Bilateral Economic Relations with Developing Nations, by Eugen Preda and Cristian Popisteanu, 14 pp.
RUMANIAN, rpt, Dialog cu trei continente, 1965, pp. 60-82.
JPRS 35606

Invisible Trade As A Developmental Factor In International Exchanges and Its Effect on the Balance of Payments, by Ion N. Craiu, 7 pp.
RUMANIAN, per, Finante si credit, No 1, Jan 1966, pp. 21-26.
JPRS 35378

Tasks of Light Industry for 1966, by Ion Moldovan, 6 pp.
RUMANIAN, per, Industria usoara, No 12, Dec 1965, pp. 623-626.
JPRS 35424

Perspective for Mechanization of Agriculture, by I. Moldovan, 6 pp.
RUMANIAN, per, Mecanizarea si electrificarea agriculturii, No 1, Jan 1966, pp. 3-7.
JPRS 35799

Applications of Mathematics in Production, by Grigore C. Moisil, Paul Constantinescu, and P. Ianculescu, 5 pp.
RUMANIAN, np, Munca, 25 Feb 1966, p. 4.
JPRS 35206

Continuous Improvement in the Geographic Distribution of Rumanian Industry in the Years of Construction of Socialism, by G. Tapase and D. Alexandru, 17 pp.
RUMANIAN, per, Natura--Seria Geografie-Geologie, Vol XVIII, No 1, Jan/Feb 1966, pp. 3-15.
JPRS 35236

Eastern Europe
Economic (Contd)

Scientific Research in the Petroleum and Natural Gas Industry, 10 pp.
RUMANIAN, per, Petrol si Gaze, No 2, Feb 1966, pp. 59-60.
JPRS 35824

Cooperatist Agriculture Enters Into a New Stage, 10 pp.
RUMANIAN, per, Probleme Economice, No 3, Mar 1966, pp. 7-15.
JPRS 35599

Raising Construction Activity To A Higher Level, 16 pp.
RUMANIAN, per, Probleme Economice, No 3, Mar 1966, pp. 16-28.
JPRS 35478

Development of Transport in 1966-1970, by Dumitru Simulescu, 13 pp.
RUMANIAN, per, Probleme Economice, No 3, Mar 1966, pp. 36-46.
JPRS 35478

Group Technology, An Efficient Method of Production Organization, by I. Bumbea, 13 pp.
RUMANIAN, per, Probleme Economice, No 3, Mar 1966, pp. 79-88.
JPRS 35479

Aspects of Scientific Research in the Field of Economic Computation and Economic Cybernetics, by L. Cretu, 11 pp.
RUMANIAN, per, Probleme Economice, No 3, Mar 1966, pp. 127-135.
JPRS 35479

Diesel-Hydraulic Locomotives of Rumanian Construction, by G. Nichita, 10 pp.
RUMANIAN, per, Revista Cailor Ferate, No 2, 1966, pp. 61-67.
JPRS 35527

Recent Developments in the Machine Building Industry, by Ion Avram, 5 pp.
RUMANIAN, per, Romania Libera, No 6698, 29 Apr 1966, pp. 1 & 3.
JPRS 35802

Eastern Europe
Economic (Contd)

Major Factors Influencing the Quality of Electronics Products, by Gheorghe Cartianu, 7 pp.
RUMANIAN, per, Telecomunicatii, No 2, Feb 1966, pp. 49-52.
JPRS 35207

Development of Rumanian Electronics Plants during the 1960-1965 Period, by Eremia Mihaleescu, 14 pp.
RUMANIAN, per, Telecomunicatii, No 2, Feb 1966, pp. 68-76, 82.
JPRS 35207

Improvements in Technical Documentation, by Vasile Taraboi, 6 pp.
RUMANIAN, per, Viiata economica, No 12, 25 Mar 1966, pp. 1, 4.
JPRS 35206

Current Trends in the Construction Industry, 9 pp.
RUMANIAN, per, Viiata economica, No 12, 25 Mar 1966, pp. 12-13.
JPRS 35235

The Improvement of Organizational Forms in Domestic Trade, by Eugen Barat, 5 pp.
RUMANIAN, per, Viiata Economica, Vol 4, No 13(137), 1 Apr 1966, p. 8.
JPRS 35478

Measures to Fulfill the 1966 Plan in Rumania by I. Costea, 6 pp.
RUMANIAN, per, Viiata Economica, No 14, 8 Apr 1966, p. 6.
JPRS 35479

Better Organization of Production in Machine-building, by I. Crisan, 7 pp.
RUMANIAN, per, Viiata economica, Vol 4, No 16, 22 Apr 1966, pp. 1 & 4.
JPRS 35802

Apartment Construction in Bucharest, by V. Boescu and L. Tintea, 7 pp.
RUMANIAN, per, Viiata Economica, No 17, Apr 1966, pp. 3 & 5.
JPRS 35644

Eastern Europe
Economic (Contd)

Twenty Years of Communications Work in Polish People's Republic, by Ludomir Shershennovich, 5 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVI, No 2, 1966.
JPRS 35,865

Characteristics of Households in Yugoslavia, by Miroslav Rancic, 23 pp.
SERBIAN, per, Jugoslovenski Pregled, No 11, Nov 1965, pp. 409-418.
JPRS 35605

Credit and Monetary Trends in Yugoslavia, by Radoslav Vuksanovic, 20 pp.
SERBIAN, per, Jugoslovenski Pregled, No 12, Dec 1965, pp. 457-464.
JPRS 35645

Trade in Chemical Consumer Goods between the CEMA Countries and the Developing Countries, by Vasilije Jankovic, 16 pp.
SERBO-CROATIAN, per, Kemija u industriji, No 2, Feb 1966, pp. 115-120.
JPRS 35606

Favorable Prospects for Further Expansion of Exports, by Srbislav Todorovic, 7 pp.
SERBIAN, per, Nova Trgovina, No 2, Feb 1966, pp. 59-61.
JPRS 35481

Registration of Economic Organizations, 9 pp.
SERBIAN, per, Nova Trgovina, No 2, Feb 1966, pp. 97-99.
JPRS 35479

The Development of the System of Credits for Liquid Assets, by Milan Golijamin, 17 pp.
SERBO-CROATIAN, per, Finansije, No 11-12, Nov-Dec 1965, pp. 621-636.
JPRS 35801

Scientific Research in Water Economy, by Branislav Kujundzic, 6 pp.
SERBO-CROATIAN, per, Gradjevinar, No 3, Mar 1966, pp. 122-124.
JPRS 35824

Yugoslav Relations with the Central American Countries, 6 pp.
SERBO-CROATIAN, per, Jugoslovenski pregled, No 11, Nov 1965, pp. 447-448.
JPRS 35803

Eastern Europe
Economic (Contd)

The Yugoslav Tanker Shipping Enterprise On Its Tenth Anniversary, by Ivan Pasa, 9 pp.
SERBO-CROATIAN, per, Fomorstvo, No 1-2, Jan-Feb 1966, pp. 14-16.
JPRS 35424

New Labor Laws in Yugoslavia, by Ratko Vukovic, 8 pp.
SERBO-CROATIAN, per, Tehnika, No 4, Apr 1966, pp. 728-731.
JPRS 35236

The Provisional Decree on the Business Policy of the Yugoslav Investment Bank, 6 pp.
SERBO-CROATIAN, per, Vesnik Jugoslovenske investicione banke, Vol X, No 109, Jan 1966, pp. 4-5.
JPRS 35206

The Business Results Achieved by the Yugoslav Investment Bank in 1965, 17 pp.
SERBO-CROATIAN, per, Vesnik Jugoslovenske investicione banke, Vol X, No 109, Jan 1966, pp. 10-15.
JPRS 35206

Political

Activities of Government Organs in Tirana City Examined, by Abdyl Kelezi, 5 pp.
ALBANIAN, np, Bashkimi, 14 Apr 1966, p. 2.
JPRS 35510

Operations of Hydrometeorological Institute Said To Be Hampered by Bureaucratic Handling of Problems, 6 pp.
ALBANIAN, np, Zeri i Popullit, 25 Mar 1966, p. 3.
JPRS 35233

Albanian Youth Paper Hails Achievements of Soviet Army on Victory Day - 9 May, by Dilaver Poci, 6 pp.
ALBANIAN, np, Zeri i Rnise, 7 May 1966, pp. 5, 6.
JPRS 35923

Eastern Europe
Political (Contd)

Bulgarian Communists Call for Unity among World Communist Parties, by Iliya Bochev, 15 pp.
BULGARIAN, per, Filosofska misul, No 6, Nov-Dec 1965, pp. 16-28.
JPRS 35272

Bulgarian CP Organ Discusses Dialectical Materialism and Modern Anti-Communism, by Deyan Pavlov, 13 pp.
BULGARIAN, per, Novo Vreme, No 4, Apr 1966, pp. 62-71.
JPRS 35494

Bulgarian CP Central Committee: Unity of World Revolutionary Process, by Stefan Goranov, 15 pp
BULGARIAN, per, Novo Vreme, No 4, Apr 1966, pp. 80-89.
JPRS 35494

Bulgarian Party Paper Criticizes Aggressive Policy of Imperialism, by D. Kosev, 7 pp.
BULGARIAN, np, Rabotnicheskoe Delo, 9 May 1966, pp. 3 & 4.
JPRS 35918

Hungarian Analysis of Military Coup in Africa, by Gyorgy Kalmer, 13 pp.
HUNGARIAN, per, Tarsadalmi Szemle, No 4, Apr 1966, pp. 74-83.
JPRS 35916

Discussion of "The Troubled Man", 9 pp.
POLISH, np, Kultura, No 17, 24 Apr 1966, pp. 3, 5.
JPRS 35480

Discussions on Adam Schaff's "Marxism and the Human Individual", 53 pp.
POLISH, per, Studia Filozoficzne, No 1, 1966, pp. 3-49.
JPRS 35604

Speech by Edward Gierek on Youth Problems, 10 pp.
POLISH, np, Sztabar Mlodziezy, 20 Apr 1966, p. 3.
JPRS 35480

Controversy over the Human Individual, by Jan Daniecki, 6 pp.
POLISH, per, Walka Mlodych, No 11, 13 Mar 1966, p. 5; No 12, 20 Mar 1966, p. 5.
JPRS 35604

Eastern Europe
Political (Contd)

Party Organizations in the Light of Tasks of Worker Self-Government Councils, by Tadeusz Rudolf, 6 pp.
POLISH, per, Zycie Partii, No 3, Mar 1966, pp. 9-10.
JPRS 35480

What Determines the Activities of Rural Youth Union Circles? by Bronislaw Golebiowski, 6 pp.
POLISH, per, Zycie Partii, No 3, Mar 1966, pp. 32-33.
JPRS 35480

Forty-Fifth Anniversary of the Establishment of the Rumanian Communist Party, by Ion Gheorghe Maurer, 6 pp.
RUSSIAN, np, Izvestiya, 8 May 1966, p. 2.
JPRS 35848

The Twentieth Anniversary of the Unification between the Communist Party of Germany and the German Social Democratic Party, 19 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1966, pp. 90-104.
JPRS 35761

Assembly Control over Political-Executive and Administrative Organs, by Dr. Aleksandar Hristov, 20 pp.
SERBO-CROATIAN, per, Radna i drustvena zajednica, Vol XIII, No 11-12, Nov-Dec 1965, pp. 668-680.
JPRS 35453

Newly Established Commissions of the Federal Assembly, by Dr. Drazen Secardic, 8 pp.
SERBO-CROATIAN, per, Radna i drustvena zajednica, Vol XIII, No 11-12, Nov-Dec 1965, pp. 708-712.
JPRS 35453

Organizational Changes and the Organisational Chart of Federal Administration (Changes Effected between 30 September 1963 and 31 December 1965 -- Organisational Chart Showing the Structure of 31 December 1965), by P. Stamatovic, 16 pp.
SERBO-CROATIAN, per, Radna i drustvena zajednica, Vol XIII, No 11-12, Nov-Dec 1965, pp. 719-728.
JPRS 35453

Eastern Europe
Political (Contd)

Regulation on Border Incidents and Border Violations, 8 pp.
SERBO-CROATIAN, per, Sluzbeni list SFRJ, No 6, 9 Feb 1966, pp. 105-108.
JPRS 35808

Yugoslav Evaluation of the Eleventh Congress of the Communist Party of Italy, by Mirjana Jankovic, 11 pp.
SERBO-CROATIAN, per, Socijalizam, No 4, Apr 1966, pp. 534-544.
JPRS 35918

Experience Gained in the Enlargement of the Titograd Airfield, by Momcillo Radovic, 11 pp.
SERBO-CROATIAN, per, Tehnika, No 4, Apr 1966, pp. 600-604.
JPRS 35424

Military

Soldiers and Officers Serve the Same Ideal -- Comment on Abolition of Ranks in the Armed Forces, by Qazim Kapisyzi, 5 pp.
ALBANIAN, np, Bashkimi, 6 Apr 1966, p. 2.
JPRS 35510

The Training of Cadets in the "Georgi Dimitrov" Higher People's Army Artillery School in Shumen, by Polkovnik Todor Zhelev, 5 pp.
BULGARIAN, np, Narodna Armiya, 12 May 1966, p. 2.
JPRS 35807

Organization and Execution of Medical Evacuation Security of a Motorized Rifle Unit in Non-Nuclear Offensive Combat in Forested Mountain Terrain, by D. Paskalev, 6 pp.
BULGARIAN, per, Vojenno Meditsinsko delo, No 1, Feb 1966, pp. 3-7.
JPRS 35376

What is the OT-62, by V. Cejnar, V. Sima.
CZECH, rpt, Milada Fronta, 21 Nov 1965.
*ACSI I-9649
ID 2204021466

Eastern Europe
Military (Contd)

Starting Our Tactical Exercises,
by B. Rupes, 5 pp.
CZECH, per, Obrana Lidi, No 20,
1965,
ACSI I-8755
ID 2204000366

Training Exercises for the Protection From Mass
Destruction Weapons, by Kurt Langhans.
GERMAN, bk, Ubungsmoglichkeiten Zum Schutz Vor
Massenvernichtungsmitteln, 1965, pp 1-159.
*PTD-HT-66-337

Kalashnikov Guarantees Quality.
GERMAN, per, Volksarmee, No 50, 1965,
p 8.
*ACSI I-9766
ID 2204006366

The Combat Tank Leopard, 15 pp.
GERMAN, per, Wehrtechnische Monatshefte,
No 9, Sept 1965, pp 347-357.
ACSI I-9327
ID 2204014266

Decree on the Conditions for Advancement in
Vocation and Rank in the Militia Service
and As Guards in Penal and Rehabilitation
Institutions, 7 pp.
SERBOCROATIAN, per, Slobodni List SFRJ, No 6,
9 Feb 1966, pp. 101-103.
JPRS 35807

Sociological

Problems of Building Socialism under Conditions
of Imperialist and Revisionist Geographic
Encirclement, by Mihallaq Konda, 7 pp.
ALBANIAN, np, Bashkimi, 26 Mar 1966, p. 2.
JPRS 35510

Law No. 4087 On Changes In the Labor Code,
13 pp.
ALBANIAN, per, Gazeta Zvartare e Republikas
Popullore te Shqiperise, No 11, 29 Dec 1965,
pp. 376-386.
JPRS 35510

The Youth Organization and the School, 12 pp.
ALBANIAN, np, Zeri i Rinise, 19 Feb 1966, p.2.
JPRS 35510

Eastern Europe
Sociological (Contd)

Admission of Students to Foreign Language
Schools, by G. Ganev, 8 pp.
BULGARIAN, per, Duzhavnen vestnik, No 34,
29 Apr 1966, pp. 1-2.
JPRS 35849

Control of the Wage Fund in Enterprises Oper-
ating under the New System of Planning and
Management, by Stancho Drumev, 8 pp.
BULGARIAN, per, Finansi i kredit, No 2,
Mar 1966, pp. 40-47.
JPRS 35608

Some Changes in the Population Distribution
of Bulgaria in the Light of the 1 December
1965 Census, by Iyubomir Dinev, 9 pp.
BULGARIAN, per, Geografiya, No 1, Jan-Mar
1966, pp. 1-5.
JPRS 35377

Water Supply and Sewer Systems in Populated
Places in Bulgaria, by Bocho Nikov, 5 pp.
BULGARIAN, per, Khidrotehnika i melioratsii,
No 10, Dec 1965, pp. 297-298.
JPRS 35487

What We Ought to Know about the Adaptation
and Modernization of Religion, by Petur
Tsvetkov, 8 pp.
BULGARIAN, per, Naruchnik na agitatora,
No 5, Mar 1966, pp. 30-40.
JPRS 35377

Wages in Agriculture under the New System,
by Georgi Kostadinov, 6 pp.
BULGARIAN, per, Otchetnost i kontrol, No 4,
Apr 1966, pp. 168-172.
JPRS 35536

Some Erroneous Prescriptions in the Regula-
tion on Premiums for Management Personnel
on State Farms, by Sotir Vasilev, 5 pp.
BULGARIAN, per, Otchetnost i kontrol, No 4,
Apr 1966, pp. 186-188.
JPRS 35536

Concerning the Character of Antisocial Acts
which Are Tried by the Comrade Courts, by
Nikola Manchev, 21 pp.
BULGARIAN, per, Prevna misul, No 6, Nov/Dec
1965, pp. 111-121.
JPRS 35808

Eastern Europe
Sociological (Contd)

Processes of Integration in Health Services, by Dr. Sava Milosevic and Dobrinka Vidakovic, 9 pp.
CROATIAN, per, Radna i Drustvena Zajednica, No 1, Jan 1966, pp. 735-742.
JPRS 35605

Planning the Standard of Living and Demography, by Gerhard Lippold, 12 pp.
GERMAN, per, Wirtschaftswissenschaft, No 3, Mar 1966, pp. 401-413.
JPRS 35808

Decree Concerning Secondary Educational Institutions, 24 pp.
HUNGARIAN, per, Magyar Kozlony, No 68, 1 Dec 1965, pp. 597-608.
JPRS 35377

Problems of Medical Training in Hungary, by Jozsef Sos, 32 pp.
HUNGARIAN, per, A Magyar Tudomanyos Akademia Orvosi Tudomanyok Osztalyanak Kozlemenyei, Vol XVII, No 1, 1966, pp. 15-39.
JPRS 35701

Air Pollution in Poland, by Jan Just and Kazimierz Nowak, 14 pp.
POLISH, per, Gas, Woda i Technika Sanitarna, No 2, Feb 1966, pp. 53-57.
JPRS 35424

Patriotic Education in the New Teaching Programs, by Dr. Maksymilian Maciaszek, 12 pp.
POLISH, per, Nowa Szkoła, No 3, Mar 1966, pp. 7-12.
JPRS 35377

Germans and Poles At the Vatican, by Edmund Osmanczyk, 13 pp.
POLISH, pp, Polityka, 30 Apr 1966, No 18, pp. 1, 7-12.
JPRS 35604

Development of Rural Telephone Facilities, by Edmund Janowski, 15 pp.
POLISH, per, Wiedomosci Telekomunikacyjne, No 3, Mar 1966, pp. 1-13.
JPRS 35644

Eastern Europe
Sociological (Contd)

Standard of Living of Peasant Families by Maria Czerniewska, 14 pp.
POLISH, per, Wies Wspolczesna, Vol X, No 3, Mar 1966, pp. 11-23.
JPRS 35535

Traditional and Modern Viewpoints on Rural Family Planning, by Franciszek Jakubczak, 13 pp.
POLISH, per, Wies Wspolczesna, Vol X, No 3, Mar 1966, pp. 24-34.
JPRS 35535

Statute of the Association of Jurists of the Socialist Republic of Rumania, 7 pp.
RUMANIAN, per, Justitia Noua, No 3, 1966, pp. 169-174.
JPRS 35808

Growth of Labor Productivity in the Ferrous Metallurgy Industry, by D. Rebusapca, R. Soare and I. Nitu, 10 pp.
RUMANIAN, per, Metalurgia, No 3, Mar 1966, pp. 164-168.
JPRS 35824

Statute of the General Union of Trade Unions of Rumania--Draft, 16 pp.
RUMANIAN, per, Munca, No 5750, 6 May 1966, pp. 1-3.
JPRS 35808

The Usefulness of the Population and Dwelling Census for Economic and Financial Activities, by I. Vacarel, 6 pp.
RUMANIAN, per, Revista de Statistica, No 1, Jan 1966, pp. 10-14.
JPRS 35808

The 1966 Population and Dwelling Census and Preceding Censuses, by G. Retegan, 6 pp.
RUMANIAN, per, Revista de Statistica, No 1, Jan 1966, pp. 44-47.
JPRS 35808

Science Must Become An Active and Dynamic Factor in the Material and Spiritual Progress of Rumanian Society, by Horia Hulubei, N. Tipei, Fl. Giorascu and Ion Zugravescu, 9 pp.
RUMANIAN, pp, Scienteia, 8 Jan 1966, p. 3.
JPRS 35469

Eastern Europe
Sociological (Contd)

Materials on the Statistics of Occupational Illnesses in East Germany in the 1957-1963 Period, Published in the Journal of General Hygiene, 1965, Pg. 100.
RUSSIAN, per, Gigiyena Truda i Professional'nyye Zabolevaniya, No 3, 1966, pp. 56-57.
JPRS 35927

Certain Problems in the Work of the Public Prosecutor in Serbia, by Milorad Dostanic, 10 pp.
SERBIAN, per, Ostina, No 3, Mar 1966, pp. 19-30.
JPRS 35477

Law Enforcement Bodies for Misdemeanors, by V. Cakic, 5 pp.
SERBIAN, per, Ostina, No 3, Mar 1966, pp. 71-76.
JPRS 35477

Selected Bibliographies of Yugoslav Educational Material, 50 pp.
SERBO-CROATIAN, bk, 1965.
CFSTI TT 66-59009

The System of Social Planning in Yugoslavia, by Mirko Frkovic, 20 pp.
SERBO-CROATIAN, per, Radna i Drustvena Zajednica, No 1, Jan 1966, pp. 711-726.
JPRS 35608

Amendments and Supplements to Regulations on Citizens' Contributions and Taxes, by M. Djurbabic, 7 pp.
SERBO-CROATIAN, per, Radna i Drustvena Zajednica, No 1, Jan 1966, pp. 743-748.
JPRS 35605

Regulation on Calculation and Payment of Contribution for Social Insurance, 8 pp.
SERBO-CROATIAN, per, Sluzbeni list SFRJ, No 1, 5 Jan 1966, pp. 30-34.
JPRS 35535

Law on Amendments and Additions to the Basic Law on Pension Insurance, 15 pp.
CROATIAN, per, Sluzbeni List SFRJ, No 14, 6 Apr 1966, pp. 274-279.
JPRS 35535

Eastern Europe
Sociological (Contd)

Code of Regulations on the Issuance and Replacement of the Personal Identity Card and on Records Concerning Personal Identity Cards Issued, by Milan Miskovic, 9 pp.
SERBO-CROATIAN, per, Sluzbeni List SFRJ, No 17, 27 Apr 1966, pp. 323-326.
JPRS 35808

The Reception of Juveniles after the Completion of Correctional Training in Correctional Institutions, by Milan Mraovic, 7 pp.
SERBO-CROATIAN, per, Socijalna politika, No 2, Feb 1966, pp. 197-202.
JPRS 35477

Alcoholism in Relation to Marriage and the Family, by Dr. Ljubisa Jovanovic, 17 pp.
SERBO-CROATIAN, per, Sociologija, No 4, Apr 1965, pp. 73-86.
JPRS 35477

Archaic Forms of Collective Land Ownership among the Shqiptars of Kosovo-Metohija Province, with Reference to Comparable Forms of Ownership in Montenegro, by Dr. Ljubinka Bogetic, 14 pp.
SERBO-CROATIAN, per, Sociologija, No 4, Apr 1965, pp. 103-112.
JPRS 35477

The Present Status and Further Development of the Veterinary Service in Yugoslavia, by R. Fuks and I. Marjanov, 10 pp.
SERBO-CROATIAN, per, Veterinarski glasnik, No 3, Vol 20, Mar 1966, pp. 171-178.
JPRS 35799

Biographic

Yevgeniy Rower - Founder of Polish School Cartography (On The 10th Anniversary of His Death, by N. N. Mel'nikova. 22 pp.
RUSSIAN, per, Iz Vsesoyezhnogo Geograficheskogo Obshchestva, No 2, 1965, pp. 194-197.
ACSI 1-7693
ID 2204031065

WESTERN EUROPE

Western Europe
Political (Contd)

Economic

Board of Navigation Regulations for Classification of Ships into Various Ice Classes, 14 pp.
FINNISH, rpt, Merenkulkuhallituksen Maatarkset Alusten Lukemisesta Eri Jäätäksiluokkille Annettu, Dec 1965.
Dept of Navy/BuShips Tr No 951

The Packaging Industry in the Federal Republic of Germany, by W. Schoppmayer, 20 pp.
GERMAN, per, Schweizer Verpackungs-Und Transportkatalog, 1964, pp 117-124.
ACSI-8417
ID 2893001165

Leftist Writer Sees Prospects for Italian Trade Union Unity, by Fabrizio Cicchitto, 8 pp.
ITALIAN, per, L'Astrolabio, Vol 4, No 13, 27 Mar 1966, pp. 24-26.
JPRS 35272

Political

Danish Socialist People's Party: Critique of Soviet CP Congress, by Gert Petersen, 5 pp.
DANISH, per, SF Bladet, No 18, 16 Apr 1966, p. 6.
JPRS 35642

Review of the XXIII CPSU Congress, by Wim Swart, 6 pp.
DUTCH, np, De Waarheid, 23 & 26 Apr 1966, pp. 3 & 2, respectively.
JPRS 35848

Lehtinen Analyzes Finnish CP Congress, 6 pp.
FINNISH, np, Kansan Uutiset, 2 Apr 1966, p. 4.
JPRS 35272

Erkki Salomaa Discusses Parliamentary Elections and Party's XIV Congress, 6 pp.
FINNISH, np, Kansan Uutiset, 17 Apr 1966, pp. 4, 5.
JPRS 35642

A Plea for a Modernization of the Finnish CP, by Erkki Salomaa, 5 pp.
FINNISH, per, Kommunisti, No 3, 1966, pp. 83-85 & 120.
JPRS 35848

Marxist-Socialist Theories of Social Change and Evolution Held Superior to Bourgeois, by Oiva Björskbacka, 7 pp.
FINNISH, per, Kommunisti, No 3, 1966, pp. 90-94.
JPRS 35848

Speech by Jeannette Thorez-Vermeersch, 11 pp.
FRENCH, speech.
JPRS 35515

Speech by Waldeck Rochet, 17 pp.
FRENCH, speech.
JPRS 35515

Waldeck Rochet Urges Joint Communist-Socialist Action Towards Democracy and Socialism, by Waldeck Rochet, 11 pp.
FRENCH, per, Cahiers du Communisme, Vol XLII, No 4, Apr 1966, pp. 125-133.
JPRS 35642

French Communist Party Changes Tactics But not Philosophy, 18 pp.
FRENCH, np, Est & Ouest, No 359, 16-31 Mar 1966, pp. 1-4, 5-10,
JPRS 35848

Est et Ouest Comments on XXIII Congress and Return to "Leninist Norms", by Branko Lazitch, 7 pp.
FRENCH, per, Est & Ouest, Vol 18, No 361, 16-30 Apr 1966, pp. 1-4.
JPRS 35642

International Communist Representation at the 23rd Congress of the CPSU Compared with Previous Congresses, 9 pp.
FRENCH, np, Est & Ouest, Vol 18, No 362, 1-15 May 1966, pp. 3-6.
JPRS 35848

Western Europe
Political (Contd)

Extracts from Speeches Delivered at the Central Committee Meeting of the French Communist Party at Argenteuil 11-13 March 1966, by Roger Garaudy, Henri Krasucki, Etienne Fajon, Guy Besse, Andre Stil, Jacques Duclos, Michel Simon, Jean Suret-Canale, Jacques Chambaz, Jean Kanapa and Lucien Seve, 71 pp.
FRENCH, per, France Nouvelle, No 1067, 30 Mar 1966, pp. 13-20; No 1068, 6 Apr 1966, pp. 13-16; No 1069, 13 Apr 1966, pp. 13-16; No 1070, 20 Apr 1966, pp. 13-16.
JPRS 35569

Youth in Action: Review of Recent Meetings of French Communist Youth Movement, by Jacques Chartrain, 5 pp.
FRENCH, per, France Nouvelle, No 1069, 13 Apr 1966, p. 6.
JPRS 35489

A Brief Appraisal of XXIII Congress by France Nouvelle's Correspondent in Moscow, by Jean Cathala, 5 pp.
FRENCH, per, France Nouvelle, No 1069, 13 Apr 1966, pp. 17-18.
JPRS 35489

Waldeck Rochet Speaks on Socialist-Communist Unity and the Transition to Socialism, by Waldeck Rochet, 9 pp.
FRENCH, per, France Nouvelle, No 1072, 4 May 1966, pp. 4-5.
JPRS 35767

Joint Declaration by French and Italian Communist Parties Following the Conference at San Remo, 5 pp.
FRENCH, per, L'Humanite, 6 May 1966, p. 2.
JPRS 35642

Communique from Franco-Soviet Union Meeting, 5 pp.
FRENCH, per, L'Humanite, 11 May 1966, p. 5.
JPRS 35648

Belgian Leftist Writer Replies to Criticism of His Article Analyzing De-Stalinization, by J. P. Wallenborn, 5 pp.
FRENCH, per, La Gauche, Vol 10, No 11, 19 Mar 1966, p. 11.
JPRS 35164

Western Europe
Political (Contd)

XXIII Congress of the CPSU Assessed by Belgian Left Wing Socialist Paper, by M. Liedman, 5 pp.
FRENCH, per, La Gauche, Vol 10, No 15, 16 Apr 1966, p. 5.
JPRS 35489

Austrian Marxist-Leninist Group Castigates French CP for Support of Mitterrand, 10 pp.
GERMAN, per, Rote Fahne, No 49, Jan 1966, pp. 12-22.
JPRS 35515

Dominique Urbany's Report on the XXIII CPSU Congress, 5 pp.
GERMAN, np, Zeitung vom Letzeburger Vollek, 29 Apr 1966, p. 2; 4 May 1966, p. 3.
JPRS 35579

Italian Weekly Interviews Longo and Alicata after the XXIII CPSU Congress, by Luigi Ghersi, 6 pp.
ITALIAN, per, L'Astrolabio, Vol IV, No 17, 24 Apr 1966, pp. 10-12.
JPRS 35515

For the Victory of Leninism against Trotskyite Provocations, 5 pp.
ITALIAN, per, Il Comunista, Vol II, No 1-2, Jan-Feb 1966, p. 3.
JPRS 35923

PSIUP Congress Reconfirms Subordination to PCI, by Franco Magdalena, 5 pp.
ITALIAN, per, Il Comunista, Vol II, No 1-2, Jan-Feb 1966, p. 5.
JPRS 35923

Pre-Congress Document of Italian Communist Youth Federation, by Francesco Marchi, 5 pp.
ITALIAN, per, IV Internazionale, Vol III, No 8, 25 Apr 1966, pp. 119-122.
JPRS 35767

Criticism of the Italian CP, 5 pp.
ITALIAN, per, Nuova Unità, No 1, Jan 1966, pp. 1 & 5.
JPRS 35582

Western Europe
Political (Contd)

Proposal for A Political-Ideological Policy
for the Italian Marxist-Leninist Movement,
19 pp.
ITALIAN, per, Nuova Unità, No 1, Jan 1966,
pp. 4-5.
JPRS 35582

Organizational Line of the Italian Marxist-
Leninist Movement, 6 pp.
ITALIAN, per, Nuova Unità, No 3, Mar 1966,
pp. 1 & 5.
JPRS 35582

Italian CP Magazine Urges Youth to Unite
for Socialism, by Achille Occhetto, 5 pp.
ITALIAN, per, Rinascita, No 12, 19 Mar 1966,
pp. 3-4.
JPRS 35272

Rinascita: Comments on Problems of XXIII
Congress, by Giuseppe Boffa, 9 pp.
ITALIAN, per, Rinascita, Nos 15 & 16, 9 Apr
1966, pp. 9-10; 16 Apr 1966, pp. 11-12.
JPRS 35649

Mario Alicata's Report to the Italian CP
Central Committee on the International Value
of the XXIII CPSU Congress, by Mario Alicata,
15 pp.
ITALIAN, np, L'Unità, 29 Apr 1966, pp. 1, 9.
JPRS 35649

Reidar Larsen: Why the Norwegian CP Has Not
Succeeded As A National, Democratic Party,
11 pp.
NORWEGIAN, np, Friheten, 16 Apr 1966, p. 5;
18 Apr 1966, pp. 4-5; 19 Apr 1966, pp. 4-5;
7; 20 Apr 1966, pp. 4-5.
JPRS 35489

The Belgian Workers' Movement Today, by
Ernest Burnel, 11 pp.
RUSSIAN, per, Kommunist, No 6, Apr 1966,
pp. 105-112.
JPRS 35761

Per-Anders Horling Reviews Hermansson's
Book, The Leftist Road, 5 pp.
SWEDISH, per, Marxistiskt Forum, No 1, 1966,
pp. 15-20.
JPRS 35489

Western Europe
Political (Contd)

Marxist Forum Comments on Congress of Demo-
cratic Youth, by Ingemar Blomberg, 6 pp.
SWEDISH, per, Marxistiskt Forum, No 1, 1966,
pp. 19-26.
JPRS 35489

Proposal for Swedish CP Statutes -- A Criti-
cal Review by Bo Gustafsson, 14 pp.
SWEDISH, per, Marxistiskt Forum, No 1, 1966,
pp. 50-66.
JPRS 35489

Swedish Dissident Communist Defends the
Dictatorship of the Proletariat, by Nils
Holmberg, 6 pp.
SWEDISH, per, Marxistiskt Forum, No 2,
1966, pp. 30-37.
JPRS 35642

Proposed Program Topics for the Swedish CP,
6 pp.
SWEDISH, np, Ny Dag, 11-17 Mar 1966, p. 10.
JPRS 35272

Socialist Weekly Questions Hermansson on
Swedish CP, by Svante Foerster, 5 pp.
SWEDISH, per, Tidsignal, No 11, 16-22 Mar
1966, p. 11.
JPRS 35164

Hermansson Defends New Leftist Line, by C. H.
Hermansson, 6 pp.
SWEDISH, per, Tidsignal, No 12, 23-29 Mar
1966, pp. 13, 12.
JPRS 35164

A "New Strategy for Socialism" Presented in
Sweden, by Joachim Israel, 5 pp.
SWEDISH, per, Tidsignal, No 18, 4-10 May
1966, pp. 1a and 10.
JPRS 35648

Western Europe
Military

Brochures Describing the Marston Flexible
Folding Tank, 7 pp.
FRENCH, rpt, 6 pp.
ACSI I-9303
ID 2204011866

Potential and Method of Employment of
Armored Vehicles, by Moussel, 10 pp.
FRENCH, per, L'Armee, No 54, Jan 66, pp 22-27.
ACSI I-9331
ID 2204014666

The 15th Transport and Communications Wing,
2pp.
FRENCH, per, Nos Forces, No 102, Mar 1, 1964
DIA LN 128-66
ID 1807009164-V

The Airfield Defense Units, Commandos of
the Air Force, Footsoldiers and Aviators,
3 pp.
FRENCH, per, Nos Forces, No 102, Mar 1, 1964,
DIA LN 128-66
ID 1807009164-V

The Air Force Supply Base, 10 pp.
FRENCH, per, Nos Forces, No 102, Mar 1, 1964,
DIA LN 128-66
ID 1807009164-V

The Advance Training Center of the Belgian
Air Force, 12 pp.
FRENCH, per, Nos Forces, No 102, Mar 1, 1964,
DIA LN 128-66
ID 1807009164-V

Military Aviation, Fifth Army, Encouraging
Beginnings in Belgium, 8 pp.
FRENCH, per, Nos Forces, No 102, Mar 1, 1964,
pp 3-8.
DIA LN 128-66
ID 1807009164-V

The Second World War, 7 pp.
FRENCH, per, Nos Forces, No 102, Mar 1, 1964,
pp 10-15.
DIA LN 128-66
ID 1807009164-V

The Nato Air Force, 6 pp.
FRENCH, per, Nos Forces, No 102, Mar 1, 1964,
pp 17-21
DIA LN 128-66
ID 1807009164-V

Western Europe
Military (Contd)

The "Nike" Guided Missile, 7 pp.
FRENCH, per, Nos Forces, No 102, Mar 1, 1964,
pp 23.
DIA LN 128-66
ID 1807009164-V

The Technical School At Saffraenbergs, 5 pp.
FRENCH, per, Nos Forces, No 102, Mar 1, 1964,
pp 28-29.
DIA LN 128-66
ID 1807009164-V

The Meteorological Service of the
Belgian Air Force, 6 pp.
FRENCH, per, Nos Forces, No 102, Mar 1, 1964,
pp 32-44.
DIA LN 128-66
ID 1807009164-V

Civil Defense Detection Equipment,
4 pp.
FRENCH, per, Revue Bimestrielle de la Protection
Civile en Belgique, No 1, 1966, pp 16-17.
ACSI I-9991
ID 2204028966

Vaccinations in Foreign Armies,
by R. Buriez, P. Many, et al.
FRENCH, per, Revue des Corps de
Sante des Armees, Vol VII, No 1,
Feb 1966.

*ACSI J-0058
ID 2204029866

20-mm Automatic Cannon, Type 822, Hispano-
Suiza, 10 pp.
GERMAN, rpt, Hispano Suiza(Suisse) Geneve,
No 507.
ACSI I-9183
ID 2204003766

Ammunition Register for the Army. Data
and Illustrations.
SWEDISH, rpt, Ammunitionsregister for
Armen. Data och Bilder, Bestallas Hos
KATF/TYS, Stockholm, pp 2-38, 1964.
*ACSI J-0116
ID 2892007165

Western Europe
Military (Contd)

FOA Explains About BW and CW Agents
by Birger Gripstad.
SWEDISH, per, FOA Orientear OM, No 2,
Dec 1964, Cover-To-Cover.
Dept of Navy 4616/ONI Tr 2139.

Western Europe
Sociological (Contd)

French Leftist Discussion of Emancipation of
French Intellectuals from Russia, by Louis
de Villefosse, 9 pp.
FRENCH, per, Preuves, Vol XVI, No 182,
Apr 1966, pp. 56-60.
JPRS 35489

An Austrian View of the Implications of the
Discussions on Art and Literature at the 23rd
Party Congress, by Elisabeth Mark, 5 pp.
GERMAN, per, Tagebuch, Vol 21, May 1966,
pp. 3-4.
JPRS 35848

Geographic

Mapping of Netherlands New Guinea,
DUTCH, rpt, Annual Report of the Activities
of the Topographic Service for the Year 1961,
1961, pp 15-17.
AMS No GA902, N47, 1961

New Maps of the Shoals on the Coastal Area
of Lower Saxony, by Dr. Rerum Technicarum
Werner Kost, 13 p.
GERMAN, rpt, Nachrichten der Niedersachsen-
chen Vermessungs und Katasterverwaltung, 1964.
AMS No TA501, N12, Vol XIV, No 2,

Havemann and della Volpe Exchange Remarks on
Hereditiy and the Natural Sciences, by Robert
Havemann and Galvano della Volpe, 5 pp.
ITALIAN, np, Rinascita, 12 Feb 1966, pp. 26-
27.
JPRS 35642

The Working Class Movement in the Welfare
Society -- Views of a French Socialist,
by Andre Gorz, 5 pp.
NORWEGIAN, per, Orientering, Vol 41, No 15,
1 May 1966, pp. 7-8.
JPRS 35642

Africa

Sociological

French CP Theoretical Journal: The Communists,
the Christians and the Church, by Andre Moine,
8 pp.
FRENCH, per, Cahiers du Communisme, Vol XLII,
No 4, Apr 1966, pp. 66-72.
JPRS 35642

Round Table on Christian and Communist Philo-
osophy, by Andre Dumus, Jacques Madaule, Roger
Garaudy, 22 pp.
FRENCH, per, Combat, 29 Apr 1966, pp. 6 & 7.
JPRS 35848

Togolese Minister of Rural Economy Optimistic
about His Country's Agriculture by M. Leonard
R. Yvesse, 5 pp.
FRENCH, per, Afrique Nouvelle, Vol 18, No
973, 31 Mar-6 Apr 1966, p. 16.
JPRS 35365

Central African Budget for 1966: Down 7%
from 1965, 5 pp.
FRENCH, per, Bulletin de l'Afrique Noire, No
414, 20 Apr 1966, pp. 8359-8361.
JPRS 35795

Dahomey's Five-Year Development Plan, 1966-
1970, 5 pp.
FRENCH, per, Bulletin de l'Afrique Noire,
Vol X, No 413, 27 Apr 1966, pp. 8334-8336.
JPRS 35760

Africa
Economic (Contd)

The Agricultural Practices of the Dogon Peasant of Mali, by Jean Gallais, 20 pp.
FRENCH, per, Les Cahiers d'Outre-Mer, Vol X, No 70, Apr-Jun 1965, pp. 123-143.
JPRS 35759

Congo-Iao Minister of Middle Classes Discusses Economic Role of His Ministry, by Paul Nkembe, 11 pp.
FRENCH, per, Le Courier D'Afrique, 12 Apr 1966, pp. 1, 5; 13 Apr 1966, pp. 1, 4.
JPRS 35661

Senegal's Financial Difficulties, by Jean Collin, 11 pp.
FRENCH, np, Dakar-Matin, 26 Apr 1966, p. 3.
JPRS 35555

Diamond Trafficking at Forminiere, Congo (Leopoldville), by Frederic D. N'Zonzila, 6 pp.
FRENCH, np, L'Etoile du Congo, 24 Mar 1966, pp. 1 & 2; 25 Mar 1966, pp. 1 & 2; 28 Mar 1966, pp. 1 & 2; 29 Mar 1966, pp. 1 & 2; 30 Mar 1966, pp. 1 & 2.
JPRS 35556

MNR Charter Stresses People's Ownership of Natural Resources in Congo (Brazzaville), 7 pp.
FRENCH, np, Etumba, Vol 12, No 22, 14 Apr 1966, p. 4.
JPRS 35762

Spain Promotes Economic Relations with Africa, by Robert Taton, 6 pp.
FRENCH, per, Europe France Outremer, No 434, Mar 1966, pp. 7-8.
JPRS 35581

Financial and Technical Assistance Programs for Urban Development in Africa, by Rene Jonesaux, 9 pp.
FRENCH, per, Europe France Outremer, No 434, Mar 1966, pp. 50-55.
JPRS 35581

Madagascar's Port Shortage and National Development, 8 pp.
FRENCH, np, Lumiere, 24 Apr 1966, pp. 5 & 8.
JPRS 35760

Africa
Economic (Contd)

Report on the BCK Railroad of Congo (Leopoldville), 6 pp.
FRENCH, per, Mwana Shaba, No 118, 1 Feb 1966, pp. 2-5.
JPRS 35661

Production in the Ivory Coast, 6 pp.
FRENCH, per, L'Observateur Africain, Vol 4, 23 Dec 1965, pp. 11-12.
JPRS 35795

Chad and Economic Cooperation in Africa, by Francois Tombalbaye, 5 pp.
GERMAN, per, Africa Heute, No 8, 15 Apr 1966, pp. 109-111.
JPRS 35759

Uganda and the East African Economy, by G. W. Muyingo, 5 pp.
GERMAN, per, Afrika Heute, No 8, 15 Apr 1966, pp. 118-121.
JPRS 35759

South Africa's Contribution to South-Polar Research, by Felicks Burdecki, Geneva: Charmailles, 5 pp.
GERMAN, rpt, Polarforschung, Band V, Jg. 33/1963, Heft 1/2, pp 106-199.
Dept of Navy 4701/ONI 2167

Agricultural Growth in the Economy, by Francesco Pistoiese, 10 pp.
ITALIAN, np, l'Unita, 20 Apr 1966, p. 3.
JPRS 35438

Africa
Political

Malanda and Nounazaley Discuss Significance
of 1 May Labor Holiday in Congo (Brazzaville),
6 pp.
FRENCH, per, Bulletin Quotidien de l'ACI, 30
Apr 1966, pp. 7-13.
JPRS 35791

Critique of Independent Congo's Political
Institutions in the Light of Its Constitu-
tional Texts, by A. Kabambi, 12 pp.
FRENCH, per, Civilisations, Vol 15, No 4,
1965, pp. 519-533.
JPRS 35197

Guinea's Hour of Reckoning, by Etienne
Mallarde, 10 pp.
FRENCH, np, Combat, Apr 11, 1966, pp. 1-2;
April 12, p. 5; April 13, p. 5; April 15, p. 5.
JPRS 35795

The Congolese Kibbutz of Saint Martin, by Rene
Beeckmans, 6 pp.
FRENCH, per, Congo-Afrique -- Economie, Culture,
Vie Sociale, Vol 6, No 2, Feb 1966, pp. 61-70.
JPRS 35197

The Congolese Clan Family System in Kwango
and Kwilu Provinces, by Abbe Innocent Belengi,
12 pp.
FRENCH, per, Congo-Afrique -- Economic, Culture,
Vie Sociale, Vol 6, No 2, Feb 1966, pp. 79-89.
JPRS 35197

Lovanium University, 1966, 5 pp.
FRENCH, np, Dakar-Matin, 24 Mar 1966, p. 4.
JPRS 35197

President Senghor's Independence Day Address
to Senegalese People, 5 pp.
FRENCH, np, Dakar-Matin, 5 Apr 1966, pp. 1, 3.
JPRS 35198

Press Conference of President Senghor on Occa-
sion of the Dakar Negro Arts Festival, 5 pp.
FRENCH, np, Dakar-Matin, 6 Apr 1966, pp. 1 & 3.
JPRS 35197

The Scope of the Last MNUP Congress at
Mankom, by D. F., 5 pp.
FRENCH, np, L'Effort Camerounais, 27 Mar 1966,
p. 1, 8.
JPRS 35197

Africa
Political (Contd)

Mali's Problems of Development and the Role of
the Workers, by Mamadou Famady Sissoko, 14 pp.
FRENCH, per, L'Essor, 18 Mar 1966, pp. 1, 3, 4.
JPRS 35197

First Meeting of JUS-RDA, 7 pp.
FRENCH, per, L'Essor Hebdomadaire, No 352,
25 Apr 1966, pp. 1-2.
JPRS 35581

"Revolutionary" Africa and the Communists,
by Nicolas Lang, 6 pp.
FRENCH, per, Est et Ouest, No 360, 1-15
Apr 1966, pp. 1-4.
JPRS 35365

Survey of Guinea's Predicament, by Issakia
Tao, 6 pp.
FRENCH, per, Fraternite, No 364, 15 Apr
1966, pp. 4, 5.
JPRS 35581

Contradictory Africa, by Thomas-R. Kanza,
11 pp.
FRENCH, np, La Gauche, Vol 10, No 15,
16 Apr 1966, pp. 6-7, 11.
JPRS 35438

Radical African Student Organization in France
Reacts Strongly to Ghana Coup, 5 pp.
FRENCH, np, La Tribune des Nations, Vol 32, No
1061, 18 Mar 1966, p. 4; No 1062, 25 Mar 1966,
p. 4.
JPRS 35197

Communist China's Program in Africa, by
Cristian Roll, 10 pp.
GERMAN, per, Africa Heute, No 8, 15 Apr
1966, pp. 112-116.
JPRS 35759

President Luebke's Trip to Black Africa, by Hans
Germani, 5 pp.
GERMAN, per, Christ und Welt, Vol 19, No 12,
25 Mar 1966, p. 34.
JPRS 35197

Reconstruction Movement in Kwilu Province,
Co. go (Leopoldville), by Abbe Valere Banga-
banga, 9 pp.
FRENCH, per, Congo-Afrique, Vol 6, No 4,
Apr 1966, pp. 184-193.
JPRS 35795

Africa
Political (Contd)

Restructuring the Congo, by A. Nguvulu, 8 pp.
FRENCH, np, Le Courrier d'Afrique, 16 Mar 1966, pp. 1, 4, 18 Mar 1966, pp. 1, 2; 19-20 Mar 1966, pp. 1, 4.
JPRS 35759

Appeal of the FLNG to the Guinean People, 6 pp.
FRENCH, np, Fraternite-Matin, 12 Apr 1966, p. 8.
JPRS 35760

MNR Paris Section Report at 8th AEC Congress
Asks Revision of Congo (Brazzaville) Constitution, by Assemekang, 9 pp.
FRENCH, per, La Voix de la Revolution, No 21, 26 Mar 1966, pp. 3, 5.
JPRS 35762

The Mobutu Regime in Leopoldville -- from
Belgian-Owned to Belgian-Controlled Congo, 12 pp.
GERMAN, np, Neue Zuercher Zeitung, 14 Apr 1966, pp. 3, 4 & 15 Apr 1966, pp. 3, 4.
JPRS 35759

Somali Premier, Information Minister View OAU,
East African Problems in AFP Interview, 9 pp.
ITALIAN, per, Corriere della Somalia, 19 Apr 1966, pp. 1, 3; 20 Apr 1966, pp. 1, 3-4.
JPRS 35762

Pistolese Report on Visit to Guinea, by
Francesco Pistolese, 6 pp.
ITALIAN, np, L'Unita, 17 Apr 1966, p. 11.
JPRS 35438

Italian Communist Organ Reports on Mali,
by Francesco Pistolese, 6 pp.
ITALIAN, np, L'Unita, 27 Apr 1966, p. 3;
JPRS 35795

Modibo Keita, Builder of the New Party in
the Ancient Land of Mali, 5 pp.
ITALIAN, np, L'Unita, 3 May, p. 8.
JPRS 35795

Nkrumah and Ghana Discussed with African
Progressives, by Francesco Pistolese, 5 pp.
ITALIAN, np, L'Unita, 6 May 1966, p. 3.
JPRS 35795

Africa
Political (Contd)

Soviet Opinion on Recent Military Coups in
Africa, by V. Kudryevtsev, 5 pp.
RUSSIAN, np, Izvestiya, 6 Mar 1966.
JPRS 35733

Soviet Correspondent Reports by T. Kolesnich-
enko, 19 pp.
RUSSIAN, np, Pravda, 8 Mar 1966, p. 5; 25
Mar 1966, p. 5.
JPRS 35733

German Mercenaries in the Congo (Leopold-
ville), by Siegfried Mueller, 8 pp.
SWISS, np, Vorwaerts, 7 Apr 1966, p. 12.
JPRS 35438

Military

Role of Congo (Brazzaville) People's Army
Defined, 10 pp.
FRENCH, np, Dipanda, No 123, 16 Apr 1966,
pp. 5-6.
JPRS 35795

Open Letter to Sekou Toure in Defense of
Houphouet-Boigny, by Paul Dechambenoit, 8 pp.
FRENCH, np, Fraternite Matin, 11 May 1966,
pp. 1, 8.
JPRS 35791

Sociological

Age Fraternities and Cultural Societies
in Upper Niger Valley (Mali), by Emile Leyraud,
30 pp.
FRENCH, per, Cahiers d'Etudes Africaines, Vol
6, No 21, 1966, pp. 41-68.
JPRS 35762

A Look At the Attis People in the Ivory Coast,
by Denise Paulme, 37 pp.
FRENCH, per, Cahiers d'Etudes Africaines,
Vol 6, No 21, 1966, pp. 86-117, 120.
JPRS 35762

Africa
Sociological (Contd)

The Situation of the Congo (Leopoldville) Worker Today, by Andre Bo-Boliko, 24 pp.
FRENCH, np, Le Courier d'Afrique, 29 Mar-9-11 Apr 1966.
JPRS 35762

Andre Malraux Speech at Dakar Negro Arts Festival, by Andre Malraux, 8 pp.
FRENCH, np, Dakar-Matin, 5 Apr 1966, p. 7.
JPRS 35198

The Role of Women in the Development of the Republic of Mali, by Oumar Baba Diarra, 6 pp.
FRENCH, np, L'Essor, 20 Apr 1966, pp. 1, 3.
JPRS 35476

Lake Nara, Recently Formed on the Border between Mali and Mauritania, by Bakary Kamian, 6 pp.
FRENCH, per, L'Essor Hebdomadaire, No 348, 28 Mar 1966, pp. 1, 3.
JPRS 35556

Resolution Adopted by National Council of Malian JUS-RDA on Attitude and Role of Malian Youth, 6 pp.
FRENCH, per, L'Essor Hebdomadaire, No 352, 25 Apr 1966, p. 3.
JPRS 35581

Prospects, Consequences of Emigration to France from Overseas Territories, by Robert Delerm, 10 pp.
FRENCH, per, Hommes et Migrations, undated, presumably late 1965 or early 1966, pp. 71-78.
JPRS 35938

Training of Africans by French Motor Vehicle Manufacturing Firm of Berliet, by Charles Jaboulet and Rene Bier, 14 pp.
FRENCH, per, Hommes et Migrations, undated, presumably late 1965 or early 1966, pp. 99-110.
JPRS 35938

Tombalbaye Stresses Need for Social Development of Rural Masses, by Pres. Tombalbaye, 5 pp.
FRENCH, per, Info Tchad, No 689, 27 Apr 1966, pp. 1-5.
JPRS 35938

Africa
Sociological (Contd)

The Negro Question in Senegal, by Jean Kestergat, 21 pp.
FRENCH, np, La Libre Belgique, 29 Apr 1966, pp. 1, 5; 30 Apr/1 May, pp. 1, 5; 2 May, pp. 1, 6; 3 May, pp. 1-2.
JPRS 35762

The Malagasy-Language Press: Alignment and Characteristics, 11 pp.
FRENCH, per, Lumiere, 1 May 1966, p. 5; 8 May 1966, p. 5.
JPRS 35760

The Europe-Africa Association, by Achille Elisha, 5 pp.
FRENCH, np, La Tribune des Nations, No 1066, 22 Apr 1966, p. 4; No 1069, 13 May 1966, p. 4.
JPRS 35938

Survey of Education in Guinea, by Louis Behanzin, 8 pp.
SPANISH, np, Horoya, 26 Mar 1966, pp. 1, 3; 27-28 Mar 1966, pp. 1, 2.
JPRS 35556

Threats to Guinean Socialism, by Robert Cornevin, 6 pp.
FRENCH, per, Le Monde Diplomatique, Vol 13, No 146, Apr 1966, p. 7.
JPRS 35938

MIDDLE EAST

Economic

Growth of the El Nasr Spinning and Weaving Company, by Muhammad Sami and Ahmad Kamil 'Awad, 6 pp.
ARABIC, np, Al-Ahram, 31 Mar 1966, p. 3.
JPRS 35740

Alexandria Spinning and Weaving Company Successful in Local and Foreign Markets, 5 pp.
ARABIC, np, Al-Ahram, 12 Apr 1966, p. 3.
JPRS 35666

Middle East
Economic (Contd)

Future of the Free Zone in Port Said in Figures, 15 pp.
ARABIC, per, Al-Ta-biah al-Ammah wa al-Ihsa'i, Jan 1966, pp. 8-19.
JPRS 35666

River Oil Tankers, 7 pp.
ARABIC, per, Al-Ta-biah al-Ammah wa al-Ihsa'i, Jan 1966, pp. 20-24.
JPRS 35666

Political

Problems Discussed at the National Assembly, by Fuad Sa'd and Mahmud Ahmad, 8 pp.
ARABIC, np, Al-Ahram, 20 Mar 1966, pp. 7, 9.
JPRS 35740

Presidential Decree No 77, 6 pp.
ARABIC, np, al-Jaridah al-Rassmiyyah, 19 Jan 1966, pp. 63-66.
JPRS 35205

Presidential Decree No 449, 8 pp.
ARABIC, np, al-Jaridah al-Rassmiyyah, 17 Feb 1966, pp. 164-165.
JPRS 35205

On Al Nida's Accusation of Mercenaries Hired by Chinese, 7 pp.
ARABIC, np, Ila-al-Amam, No 51, 21 Mar 1966, pp. 1, 2, 8.
JPRS 35525

Three Critical Organizational Problems in the United Democratic Left, by Michaelos Kepesis, 11 pp.
GREEK, per, Kliniki Aristera, No 31, Feb 1966, pp. 61-68.
JPRS 35399

Al-Yom: The Only Arab Newspaper, by Abala Mansur, 5 pp.
HEBREW, np, Haaretz, 4 Mar 1966, p. 13.
JPRS 35247

Middle East
Political (Contd)

The Political Perspective Lights the Way To the Enlargement of Our Party and the Strengthening of Its Campaign, by Esther Wilenska, 6 pp.
HEBREW, np, Kol Haam, 6 Mar 1966, p. 2.
JPRS 35247

Sh Mikunis: The Appropriate Hour for Political Reevaluation, 10 pp.
HEBREW, np, Kol Haam, 25 Mar 1966, p. 2.
JPRS 35512

Interview with David Systrach, 5 pp.
HEBREW, np, Kol Haam, 1 Apr 1966, p. 2.
JPRS 35512

Who Are the Friends of the Arab People and the Opponents of the Communist Party, 9 pp.
HEBREW, np, Kol Haam, 1 Apr 1966, pp. 2 & 5.
JPRS 35512

What Underlies the Conversations of G. Meir, Mikunis, Gallili, Sneh, 5 pp.
HEBREW, per, Zo Haderekh, 31 Mar 1966, pp. 3, 7.
JPRS 35512

Political Events and Economic Trends, by V. Ehrlich, 7 pp.
HEBREW, per, Zo Haderekh, 31 Mar 1966, pp. 4, 7.
JPRS 35512

The State of Israel: Its Position and Policy, by K. Ivanov and Z. Sheynis, 119 pp.
RUSSIAN, bk, Gosudarstvo Izraile' Yego Polozheniye i Politika, 1959, pp. 1-190.
JPRS 35373

Report of Soviet Journalists' Trip to India, by I. Belyayev, F. Burlatskiy, Yu. Gotlober, and O. Skalkin, 5 pp.
RUSSIAN, np, Pravda, 21 Mar 1966, p. 3.
JPRS 35834

Middle East
Sociological

Surplus of Graduates in the UAR, by Mahmud 'Arif, 5 pp.
ARABIC, np, Al-Akhbar, 3 Apr 1966, pp. 3,9.
JPRS 35740

Efforts of Post Office To Meet Increasing Volume of Mail, 8 pp.
ARABIC, np, Al-Ahram, 7 Apr 1966, p. 3.
JPRS 35740

Emigration to Cairo Governorate, 9 pp.
ARABIC, per, Al-Ta-bish al-Ammaah wa al-Ihsa'i, Jan 1966, pp. 25-31.
JPRS 35666

The Problems of Labor Union Work, by Vasilis Nefeloudis, 12 pp.
GREEK, per, Elliniki Aristera, No 31, Feb 1966, pp. 31-41.
JPRS 35399

J. Rotenbaum: The Theater -- Art and Opinion, by Yaron Bekar, 7 pp.
HEBREW, np, Kol Haam, 25 Mar 1966, p. 4.
JPRS 35512

FAR EAST

Economic

Suggestions Concerning Mechanization of Cement Factory Transportation and Loading Equipment, by Huang Yu-feng and Liu Te-ch'ing, 7 pp.
CHINESE, per, Chien-chu Ts'ai-liao Kung-yeh Chi-shu, No 5, 28 Nov 1965, pp. 15-17.
JPRS 35913

Measures for Preventing Cement Pole and Pipe Cracking, 7 pp.
CHINESE, per, Chien-chu Ts'ai-liao Kung-yeh Chi-shu, No 6, 28 Dec 1965, pp. 9-11.
JPRS 35913

China's Handicraft Industry Must Further Support Agriculture and Satisfy Urban and Rural People's Needs, by Teng Chieh, 8 pp.
CHINESE, per, Hsin Kung-shang, No 3, 18 Mar 1966, pp. 1-4.
JPRS 35840

Far East
Economic (Contd)

Energetic Promotion of a Technical Revolution in Construction Material, by Kuo Chien-yen, 7 pp.
CHINESE, np, Jen-min Jih-pao, 15 Mar 1966, p.5.
JPRS 35755

The Effects of Studying Chairman Mao's Writings on Industrial Production of Shanghai and Tientsin, 5 pp.
CHINESE, np, Jen-min Jih-pao, 30 Apr 1966, p. 2.
JPRS 35840

Work Report of the Chinese Academy of Sciences Team of Observers on Its Visit to the USSR by Yen Chi-tz'u, 27 pp.
CHINESE, per, K'o-hsueh T'ung-pao, No 13, Jul 1957, pp. 385-394.
JPRS 35196

I Grew Up with the Nurture of Mao Tse-Tung's Thought, by Wang Hsiao-wan, 10 pp.
CHINESE, np, Kuang-ming Jih-pao, 15 Mar 1966, p. 2.
JPRS 35755

National Conference Exchanges Rural Scientific Experience, 7 pp.
CHINESE, np, Kuang-ming Jih-pao, 8 May 1966, p. 4.
JPRS 35755

Further Progress to Strive for Greater Fulfillment of the Sea Transportation Production Task, by Li Wei-chung, 13 pp.
CHINESE, per, Shui-yun, No 1, 7 Jan 1966, pp. 3-8.
JPRS 35766

How the Hsiao-Ch'ing-Ho Shipping Bureau Developed Cargo Service to Support Agriculture, 7 pp.
CHINESE, per, Shui-yun, No 1, 7 Jan 1966, pp. 18-20.
JPRS 35766

Assuring Repayment of Loans While Upholding the Class Line, by Chang Hsiu-min, 5 pp.
CHINESE, np, Ta Kung Pao, 11 Mar 1966, p. 3.
JPRS 35944

Far East
Economic (Contd)

On the Technical-Economic Appraisal of Industry Distribution, by Hu Hsu-wei and Hu Ting-chu, 31 pp.
CHINESE, per, Ti-li Hsueh-pao, Vol 31, No 3, Sept 1965, pp. 179-191.
JPRS 35929

Labor Force and Wages in Japanese Shipyards, 5 p.
FRENCH, per, Journal de la Marine Marchande, 21 April 1966, pp 865-866.
Dept of Comm
Maritime Admin

The Motor Industry of Japan, by H. Buschmann, 49 pp.
GERMAN, per, MTZ Motortechnische Zeitschrift, Vol XXIV, No 5, 1963 pp 151-166.
ACSI I-8764
ID 2204001266

"Flyer" Deflection Analysis and Its Calculation.
JAPANESE, bk, Fangzhi Jishu, July 25-28.
NLL Ref: 5828.4 1965 (5790)

Information from the 1965 North Korean Yearbook, 361 pp.
KOREAN, bk, Choson Chungang Yonggam 1965, 30 Sept 1965, pp. 101-129, 136-170, 179-189, 192-195, 255-261, 477-503, 517-532
JPRS 35146

Production Normalization Is Important For Developing Socialist Industry, by Son Kyong-jun, 12 pp.
KOREAN, per, Kulloja, No 2, 20 Jan 1966, pp. 27-34.
JPRS 35553

Agricultural Sciences and Agricultural Production, by Kim Kye-hyon, 9 pp.
KOREAN, per, Kulloja, No 2, 20 Jan 1966, pp. 35-40.
JPRS 35553

Ch'ong San-li Instructions Are the Foundation of the Socialist Agrarian Management Movement, 7 pp.
KOREAN, per, Kulloja, No 3, Feb 1966, pp. 2-7.
JPRS 35739

Far East
Economic (Contd)

Integration of Capital Construction Projects, by Yi Min-su, 10 pp.
KOREAN, per, Kulloja, No 3, Feb 1966, pp. 16-25.
JPRS 35739

Democratic Principle in Cooperative Farm Management, by Kim Ung-bok, 5 pp.
KOREAN, np, Minju Choson, 19 Mar 1966, p. 2.
JPRS 35554

More Chemical Fertilizer for Rural Areas, by Song Pok-ki, 5 pp.
KOREAN, np, Nodong Sinmun, 10 Apr 1966, p. 2.
JPRS 35850

Our People's Glorious Achievements in Building the Socialist Economy in the North between 1955 and 1965, by Nguyen Duy Trinh, 23 pp.
VIETNAMESE, per, Hoc Tap, No 4, 1966, pp. 14-32.
JPRS 35665

Five Years of Technical Progress in Light Industry, by Luong Ngoc Khue, 17 pp.
VIETNAMESE, per, Ky Thuat Cong Nghiep Nhe, Apr 1966, pp. 3-10 & 39.
JPRS 35852

Five Years of Progress in the Paper Industry, by Nguyen Ai Quy, 9 pp.
VIETNAMESE, per, Ky Thuat Cong Nghiep Nhe, Apr 1966, pp. 15-18.
JPRS 35852

Vietnam Trade Union's Resolution on 1966 Tasks, 22 pp.
VIETNAMESE, np, Lao Dong, 5 Mar 1966, pp. 2-3.
JPRS 35246

On Strengthening the Unified Financial System in the North, by Tran Duong, 36 pp.
VIETNAMESE, per, Nghien cuu Kinh te, No 31, Feb 1966, pp. 3-18.
JPRS 35583

Solve the Foodstuff Problem to Defeat the Plundering Americans, by Le Loc, 18 pp.
VIETNAMESE, per, Nghien cuu Kinh te, No 31, Feb 1966, pp. 17-23.
JPRS 35583

Far East
Economic (Contd)

Development of the Economy of the Forestry Industry in the Next Few Years, by Cao Cu Doi, 19 pp.
VIETNAMESE, per, Nghien cuu Kinh te, No 31, Feb 1966, pp. 31-38.
JPRS 35583

Positively Equip Agriculture with Small Machinery, by Vu Quoc Tuan, 19 pp.
VIETNAMESE, per, Nghien cuu Kinh te, No 31, Feb 1966, pp. 39-46.
JPRS 35583

A Few Problems of Clothing in Our Country, by Thanh Son, 15 pp.
VIETNAMESE, per, Nghien cuu Kinh te, No 31, Feb 1966, pp. 47-52.
JPRS 35583

Economic Construction and Development for 1966-1967 and the State Plan for 1966, by Nguyen Con, 35 pp.
VIETNAMESE, np, Nhan Dan, 29 Apr 1966, pp. 1-4.
JPRS 35757

The Railroad Battlefront, by Chinh Yen, 5 pp.
VIETNAMESE, np, Nhan Dan, No 4408, 1 May 1966, p. 2.
JPRS 35788

Development of Heavy Industry, by Nguyen Van Tran, 6 pp.
VIETNAMESE, per, Thoi Su Pho Thong, No 6, Mar 1966, pp. 1-8.
JPRS 35852

Experiences of Bridge and Road Repair Units, by Ho Xuan Du, 5 pp.
VIETNAMESE, per, Thoi Su Pho Thong, No 6, pp. 48-54.
JPRS 35852

New Development in China's Agricultural Demarcation Work, 16 pp.
CHINESE, per, Ti-li Hsueh-pao, 1965, pp. 269-276.
JPRS 35755

Far East
Economic (Contd)

Work Methods for Comprehensive Agricultural Demarcation in Kwangtung Province's Tung-Wan Hsien, by Hsiao Chun-ch'eng, 9 pp.
CHINESE, per, Ti-li Hsueh-pao, Dec 1965, pp. 277-284.
JPRS 35755

North Vietnam's Activities in Science for 1965, 18 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa hoc, No 3, Mar 1966, pp. 36-45.
JPRS 35595

The Basic Spirit of the 1966 State Plan, by Nguyen Con, 12 pp.
VIETNAMESE, per, Tuyen Huan, No 2, Feb 1966, pp. 1-7 & 32.
JPRS 35204

About the Ideological Work in the Campaign of Improving Agricultural Cooperative Management in the Highlands, 13 pp.
VIETNAMESE, per, Tuyen Huan, No 3, 1966, pp. 22-28 and 47.
JPRS 35204

Political

Give Prominence to Politics, Put Mao-tse Tung's Thinking in Command of Everything, by Wang Jen-chung, 28 pp.
CHINESE, per, Hung-ch'i, No 5, 5 Apr 1966.
JPRS 35202

"Hai Shui Curses the Emperor" and "The Dismissal of Hai Shui" Are Two Great Poisonous Weeds, by Kuan Feng and Lin Chieh, 31 pp.
CHINESE, per, Hung-ch'i, No 5, 5 Apr 1966.
JPRS 35202

Commenting on Wu Han's T'ou-ch'iang-chi, by Shih Shao-pin, 25 pp.
CHINESE, per, Hung-ch'i, No 6, 1966,
JPRS 35464

Worker-Peasant-Soldier Masses Criticize Wu Han's Anti-Party Anti-Socialist Political Stand and Academic Viewpoint, 17 pp.
CHINESE, per, Hung-ch'i, No 6, 29 Apr 1966, pp. 10-19.
JPRS 35798

Far East
Political (Contd)

Criticism of San Chia Ts'un--The Reactionary Nature of Yen Shan Yeh-Hua and San Chia Ts'un Tsa-Chi, by Yao Wen-yuan, 30 pp.
CHINESE, per, Hung-ch'i, No 7, 1966.
JPRS 35713

The International Liaison Office of the Chinese Communist, 5 pp.
FRENCH, per, Est et Ouest, Vol 18, No 359, 16-31 Mar 1966, pp. 18-20.
JPRS 35646

Report on Indonesia by Dr. Hjalmar Schacht, 34 pp.
INDONESIAN, rpt, Kementerian Penerangan R. I. 1951, pp. 1-65.
JPRS 35194

China's Real Desires for Russia, by Ricciardetto, 6 pp.
ITALIAN, per, Epoca, Vol XVII, No 815, 8 May 1966, pp. 18-20.
JPRS 35767

Italian Communist Outlines Possible Basis for Progress in Cooperation between Communist and Catholics, 7 pp.
ITALIAN, per, L'Unita, 14 May 1966, p. 10.
JPRS 35848

New Attack by Shiga Faction on the Japanese CP, 5 pp.
JAPANESE, per, Akahata, 24 Apr 1966, p. 5.
JPRS 35502

Party Spirit, Class Spirit and Popular Spirit for Revolutionizing Society, 13 pp.
KOREAN, per, Kulloja, No 2, 20 Jan 1966, pp. 17-26.
JPRS 35554

Integration of Political and Economic Work, 8 pp.
KOREAN, per, Kulloja, No 3, Feb 1966, pp. 8-15.
JPRS 35790

Revolutionary Ideology and World Outlook, by Kang Mu'ngsu, 5 pp.
KOREAN, per, Munhak Simon, 29 Mar 1966.
JPRS 35461

Far East
Political (Contd)

Draft of the Program of the Mongolian People's Revolutionary Party, 21 pp.
MONGOLIAN, np, Unen, 27 Apr 1966, pp. 1, 2 & 3.
JPRS 35647

Directive of the Central Committee of the Mongolian People's Revolutionary Party Regarding the Fourth Five-Year Plan, 14 pp.
MONGOLIAN, np, Unen, 28 Apr 1966, pp. 1, 2 & 3.
JPRS 35647

Soviet Literary Gazette Comments on Indonesian Situation, by S. Mikoyan, 6 pp.
RUSSIAN, np, Literaturnaya Gazeta, 16 Apr 1966, p. 4.
JPRS 35345

Discussion of Draft of New Mongolian People's Revolutionary Party Program and New Mongolian Five-Year Plan, by D. Molomshamta, 5 pp.
RUSSIAN, np, Pravda, 24 May 1966, p. 4.
JPRS 35916

The Chinese-Soviet Divergence, by Angel Fernandez Varela, 6 pp.
SPANISH, np, Republica, 4 May 1966, pp. 3 & 6.
JPRS 35918

Resolutions of the Third Session of the Third National Assembly, 5 pp.
VIETNAMESE, np, Nhan Dan, 27 Apr 1966, p. 1.
JPRS 35662

A Brilliant Feat of Arms, 5 pp.
VIETNAMESE, np, Nhan Dan, 30 Apr 1966, p. 1.
JPRS 35662

Courageously Defeat the American Aggressors, 13 pp.
VIETNAMESE, np, Quan Doi Nhan Dan, 15 Mar 1966
JPRS 35457

Far East
Political (Contd)

Review of Anti-U.S. Literary Works to Save South Vietnam Published in North Vietnam during 1965, by Nam Moc, 15 pp.
VIETNAMESE, per, Tap Chi Van Hoc, Feb 1966, pp. 6-18.
JPRS 35204

What Does the Fatherland Demand of Everyone? 5 pp.
VIETNAMESE, per, Tuyen Huan, No 3, 1966, pp. 19-21.
JPRS 35204

Sociological

Notification on the Issuance of a Program of Wage Scales for the Workers of State Organs, 55 pp.
CHINESE, rpt, Chung-yang Ts'ai-cheng Fakuei Hui-pien, 1956, pp. 226-247.
JPRS 35455

Literature and Art Must Insist on Marxist Epistemology--A Critique of Substantialism, by Cheng Chi-ch'iao, 33 pp.
CHINESE, per, Hung-ch'i, No 5, 5 Apr 1966, pp. 34-52.
JPRS 35335

Arid Climate in Central Kansu, by Tsao En-chueh and Wu Shih-tun, 21 pp.
CHINESE, per, Ti-li Hsueh-pao, Vol 31, No 3, Sept 1965, pp. 226-236.
JPRS 35929

The Origin of Life, by Li Chun, 9 pp.
CHINESE, np, Wen Hui Pao, 27 Feb 1966, p. 3.
JPRS 35755

The New Year To Be Aflame with Revolutionary Passion and Creation, 7 pp.
KOREAN, per, Choson Munhak, No 1, 6 Jan 1966, pp. 4-6.
JPRS 35676

Far East
Sociological (Contd)

Revolutionary Masterpieces and the Spirit of Realism, by Ch'oe Il-eyong, 19 pp.
KOREAN, per, Choson Munhak, No 2, 6 Feb 1966, pp. 69-77 and 85.
JPRS 35676

Model Education and Teacher's Character, 5 pp.
KOREAN, per, Inmin Kyoyuk, No 1, Jan 1966, pp. 2-4.
JPRS 35790

Problems of Teaching National Language, by Kim Yong-un, 5 pp.
KOREAN, per, Inmin Kyoyuk, No 1, Jan 1966, pp. 7-10.
JPRS 35790

A Review of Hunguksa (History of Korea) Part III - 15th to 19th Centuries, by Kim Sok-hyong and Ch'ang Kuk-jong, 11 pp.
KOREAN, per, Kulloja, No 3, 1966, pp. 26-35.
JPRS 35790

The Essence of Freedom Espoused by the Dominant Bourgeois Class, by Cho Jung-hak, 6 pp.
KOREAN, per, Kulloja, No 3, Feb 1966, pp. 44-48.
JPRS 35790

Description and Representation, 8 pp.
KOREAN, np, Munhak Sinmun, 25 Mar 1966, pp. 1-2.
JPRS 35461

Accomplishments of Institute of History in 1965, 6 pp.
VIETNAMESE, per, Nghien Cuu Lich Su, No 83, Feb 1966, pp. 1-3.
JPRS 35935

More Labor for Production Possible Even in Fighting Areas, by Nguyen Tho and Nguyen Sinh, 6 pp.
VIETNAMESE, np, Nhan Dan, 24 Apr 1966, p. 2.
JPRS 35715

Hung Yen Expands Its Network of Small Machines in Rural Areas, by Phan Quang, Tran Dung Tien, and Tran Nguyen, 11 pp.
VIETNAMESE, np, Nhan Dan, 30 Mar 1966, p. 2; 31 Mar 1966, p. 2.
JPRS 35715

Far East
Sociological (Contd)

- Use and Waste of Labor, 8 pp.
VIETNAMESE, np, Nhan Dan, 9 Apr 1966,
p. 2.
JPRS 35533
- Suitable Use of Labor Time in Construction
Camps, by Tan Sac, 7 pp.
VIETNAMESE, np, Nhan Dan, 10 Apr 1966, p. 2.
JPRS 35533
- Questions and Answers on Daily Problems of
Life in a Rural Cooperative, 9 pp.
VIETNAMESE, per, Thoi Su Pho Thong, No 5, Feb
1966, pp. 53-61.
JPRS 35237

Latin America
Economic (Contd)

- The Coconut Palm -- Its Cultivation and Protec-
tion against Disease and Pests, by Antonio
Martinez Andreu, 13 pp.
SPANISH, per, Agrotecnica de Cuba, Jan-Mar
1965, pp. 12-21.
JPRS 35734
- Problems and Prospects of the Dominican
State Sugar Industry, 10 pp.
SPANISH, np, Ahora, 18 Apr 1966, pp. 51-54.
JPRS 35413
- The Cashew Nut As a Source of Foreign Exchange,
by Dr. Saeed Ahmed, 6 pp.
SPANISH, per, Agrotecnica de Cuba, Oct-Dec
1965, pp. 8-13.
JPRS 35939

LATIN AMERICA

Economic

- Unexploited Economic Reserves in Northeast
Brazil, 5 pp.
GERMAN, np, Neue Zuercher Zeitung, 4 May
1966, p. 5.
JPRS 35907

- Cocoa Cultivation in Northeastern Brazil,
by R. B., 5 pp.
GERMAN, per, Neue Zuercher Zeitung, 7 May
1966, No 124, p. 5.
JPRS 35907

- Brazilian Monthly Economic Balance, 6 pp.
PORTUGUESE, per, Carta Economica Brasileira,
Vol II, No 3, Mar 1966, pp. 5-8.
JPRS 35907

- First Seminar of Unity in the National Educa-
tion System (Ministry of Education -- Univer-
sities -- National Union of Education and
Science Workers), by Jose Ramon Luege and
Carlos March, 32 pp.
SPANISH, pamphlet, Aug 1965, pp. 1-31.
JPRS 35805

- Nomenclature of Sugarcane Varieties, by Manuel
Rodriguez Cabrera, 5 pp.
SPANISH, per, Agrotecnica de Cuba, Jan-Mar
1965, pp. 4-11.
JPRS 35734

- Report by the Central Bank on the Economic
Evolution of Argentina in the First Quarter
of 1966, 24 pp.
SPANISH, np, Analisis, 2 May 1966, pp. 1067-
1073.
JPRS 35763

- Cuba: An International Center on Cloud Science,
by Henri Dessens, 6 pp.
SPANISH, per, Bohemia, 8 Apr 1966, pp. 22-26.
JPRS 35406

- Cuban Karst Lands, by Manuel Acevedo
Gonzalez, 9 pp.
SPANISH, per, El Carso Cubano, Apr 1966,
pp. 1-8.
JPRS 35566

- Argentina's Money in Circulation Hits New
Record, 6 pp.
SPANISH, np, Clarín, 15 May 1966, Third Section,
p. 7.
JPRS 35763

- Over-All Planning of Argentinian Economy
Held Necessary, by Osvaldo Alejandro Morales,
5 pp.
SPANISH, np, Clarín, 15 May 1966, Third Sec-
tion, pp. 10-11.
JPRS 35763

- Mexico's Foreign Trade in 1965, 6 pp.
SPANISH, per, Comercio Exterior, Vol XVI, No 2,
Feb 1966, pp. 62-65.
JPRS 35709

Latin America
Economic (Contd)

Behavior of Mexico's Economy in 1965, 13 pp.
SPANISH, per, Comercio Exterior, Vol XVI,
No 2, Feb 1966, pp. 72-76.
JPRS 35709

Development of the Cuban Maritime Economy,
by Manuel Novoa Iguzquiza, 11 pp.
SPANISH, per, Comercio Exterior, Vol V, No 1,
Jan-Mar 1966, pp. 49-59.
JPRS 35837

Statistics on the Economy of Cuba, 5 pp.
SPANISH, per, Comercio Exterior, Vol V,
No 1, Jan-Mar 1966, pp. 97-103.
JPRS 35837

Press Conference on Water Resources Projects,
6 pp.
SPANISH, np, Granma, 11 Apr 1966, p. 8.
JPRS 35939

The New Norms of Socialist Competition, by
Basilio Rodriguez, 10 pp.
SPANISH, np, Cuba Socialista, Apr 1966,
pp. 93-104.
JPRS 35805

Fiv. Years of ANAP, by Antero Regalado, 17 pp.
SPANISH, per, Cuba Socialista, May 1966,
pp. 44-65.
JPRS 35805

The Plan for Industrial Efficiency in Camaguey,
by Jose Fuertes Jimenez, 9 pp.
SPANISH, np, Cuba Socialista, May 1966,
pp. 66-76.
JPRS 35738

Cuba Socialista: The Study of the Economy of
Labor Is A Necessity, by Manuel Mendoza,
14 pp.
SPANISH, per, Cuba Socialista, May 1966, pp.
77-93.
JPRS 35738

Cuba's Industrial Development, 43 pp.
SPANISH, np, Cuba Socialista, Apr 1966,
pp. 126-133.
JPRS 35653

Latin America
Economic (Contd)

Economic Notes on Cuban Industry:
Absenteeism and Hygiene, 9 pp.
SPANISH, per, Cuba Socialista, Apr 1966,
pp. 189-200.
JPRS 35539

The Sixth Sugar Cane Harvest: A Severe Trial
Says Cuba Socialista, 8 pp.
SPANISH, np, Cuba Socialista, May 1966,
pp. 140-148.
JPRS 35738

Agrarian Reform in Indian-America, by Otto
Morales Benitez, 15 pp.
SPANISH, per, Economia Colombiana, No 81,
Feb 1966, pp. 39-46.
JPRS 35179

Commercial and Industrial Views on the
Import Tariff, 8 pp.
SPANISH, per, El Economista, No 4, pp. 22-23.
JPRS 35389

Urgently Needed Rehabilitation of Comibol
Completed in 1965, 5 pp.
SPANISH, per, El Economista, No 4, p. 42.
JPRS 35389

Problems in Planning and Development in
Latin America, by Horacio Flores de la
Pena, 10 pp.
SPANISH, np, Fichas, Apr-May 1966, pp. 47-
51.
JPRS 35430

Role of PCC in Sugar Production, 6 pp.
SPANISH, np, Granma, 28 Feb 1966, p. 2.
JPRS 35372

Improvement of Bread Distribution in Havana,
10 pp.
SPANISH, np, Granma, 3 Mar 1966, p. 8.
JPRS 35170

Recent Progress in the Manaf Fiber Industry
in Cuba, by Joaquin Oramas, 6 pp.
SPANISH, np, Granma, 4 Mar 1966, p. 8.
JPRS 35765

Latin America
Economic (Contd)

Cuban Strawberries: A New Crop, by Joaquin Oramas, 5 pp.
SPANISH, np, Granma, 2nd Year, No 21, Mar 1966, p. 8.
JPRS 35456

The Role of Bagasse, by Luis Alberto Montero, 6 pp.
SPANISH, np, Granma, 2nd. Year, No 80, 22 Mar 1966, p. 8.
JPRS 35456

The Swamps of Cuba and Their Importance for the Increase of Agricultural Production, by Stepan M. Perekhrest, 64 pp.
SPANISH, bk, Los Pantanos de Cuba y su Importancia Para el Aumento de la Producción Agrícola y Fortalecimiento de la Economía del País, Feb 1964, pp. 2-78.
JPRS 35626

Uruguayan Exports for the Five-Year Period 1961-1965, by Hermann Meissner, 7 pp.
SPANISH, per, La Manana, No 91, Mar 7, 1966, pp. 13-14.
JPRS 35389

Cuban Agricultural Agency Celebrates First Anniversary, 12 pp.
SPANISH, np, El Mundo, 3 Mar 1966, p. 9.
JPRS 35170

Criteria for the Selection of Industrial Projects in Cuba, by Angel M. Pernas, 12 pp.
SPANISH, np, Nuestra Industria Económica, Feb 1966, pp. 16-27.
JPRS 35805

The Use of Metal Molds in Casting Operations, by Vladislav Kalivoda and Jose Luis Muniz, 8 pp.
SPANISH, np, Nuestra Industria Tecnológica, Nov-Dec 1965, pp. 31-36.
JPRS 35178

1965 Review and 1966 Prospects for Argentine Economy, by Jaime Fuchs, 16 pp.
SPANISH, per, Nueva Era, Vol XVIII, No 2, Mar 1966, pp. 12-27.
JPRS 35413

Latin America
Economic (Contd)

Cuba's Fao Delegate Reports on Cuban Agriculture, by Mario García Inchaustegui, 11 pp.
SPANISH, per, Panorama Económico Latinoamericano, No 178, 1966, pp. 4-10.
JPRS 35539

Productivity and Industrial Development, by Jorge Succar Rahme, 10 pp.
SPANISH, per, Peru Industrial, Mar-Apr 1966, pp. 6-10.
JPRS 35907

An Historical Review of Peruvian Banking, by Julian Jaramillo Parodi, 11 pp.
SPANISH, per, Peru Industrial, Mar-Apr 1966, pp. 24, 26, 27, 28 & 30.
JPRS 35907

Petition for the Repeal of Decree-Law No 444, 5 pp.
SPANISH, per, Prensa Libre, 3 May 1966, p. 34.
JPRS 35657

Paz del Rio Shares Sold at Grossly Deflated Prices, 8 pp.
SPANISH, np, La Republica, 28 Mar 1966, p. 2.
JPRS 35430

A Better Socio-Economic Future Based on Clearer Political Prospects, 12 pp.
SPANISH, np, La Republica, 4 Apr 1966, pp. 9 & 12.
JPRS 35389

Different Properties of Stored Bagasse, by Remberto Bastanzuri, Victor Ruiz and Panfilo Baez, 20 pp.
SPANISH, per, Revista Tecnologica, Vol IV, No 1, Jan-Feb 1966, pp. 3-38.
JPRS 35631

Colombian Tobacco Company Asks for Support for Domestic Industry, 5 pp.
SPANISH, np, El Siglo, 1 Apr 1966, pp. 1-2.
JPRS 35389

Colombia Signs Reciprocal Dollar Credit Agreements with LAFTA Countries, by Jaime Villamil Leon, 5 pp.
SPANISH, np, El Siglo, 13 May 1966, p. 2.
JPRS 35907

Latin America
Political

Anti-Communist Periodical of International Political Studies Analyzes Havana Conference, by Georges Albertini, 11 pp.
FRENCH, per, Est et Ouest, No 358, 15 Mar 1966, pp. 1-6.
JPRS 35512

Fidel Castro's Interview with the Bunte Illustrierte, by Wim Dannau, 9 pp.
GERMAN, per, Bunte Illustrierte, No 17, 20 Apr 1966, pp. 54, 56, 57, 60, 61, 63, 66, 67, 69.
JPRS 35539

Guatemalan Reaction to Castro Speech Attacking Trotskyism, by Llilio Maitan, 10 pp.
ITALIAN, per, Bandiera Rossa, Vol XVII, No 3, Mar 1966, pp. 5, 6.
JPRS 35164

Bulgarian Medical Expert Finds Much To Admire in Cuban Development, by Ciro Perez and Dragomir Mateev, 7 pp.
SPANISH, per, Bohemia, Vol 58, No 17, 29 Apr 1966, pp. 49-51.
JPRS 35738

The Cuban Revolution Deemed Invulnerable to Trotskyite "Slanders", by Glas Roca, 10 pp.
SPANISH, per, Cuba Socialista, Apr 1966, pp. 81-92.
JPRS 35456

Colombian CP Organ Discusses: Divergencies in the International Communist Movement, by Jose Cardona H., 8 pp.
SPANISH, per, Documentos Politicos, No 57, Feb 1966, pp. 25-34.
JPRS 35272

The Communist Approach to Non-Communist Alliances, by Hernando Hurtado, 5 pp.
SPANISH, per, Documentos Politicos, No 57, Feb 1966, pp. 35-40.
JPRS 35272

Aspects of Communist Propaganda, by Joaquin Moreno Diaz, 8 pp.
SPANISH, per, Documentos Politicos, No 57, Feb 1966, pp. 41-51.
JPRS 35272

Latin America
Political (Contd)

A Dangerous Situation: Current Extremist Subversion in Venezuela, by Georges Albertini, 16 pp.
SPANISH, np, Este & Oeste, No 88, 1-15 Apr 1966, pp. 1-9.
JPRS 35918

Profile of Commander Julio Camacho Aguilera of the Central Committee, by Santiago Cardosa Arias, 11 pp.
SPANISH, np, Granma, 28 Nov 1965, pp. 10-12 of Supplement.
JPRS 35406

Profile of Commander Joel Iglesias of Our Central Committee, by Joaquin Oramas, 5 pp.
SPANISH, np, Granma, 5 Dec 1965, pp. 10-11 of Supplement.
JPRS 35406

How Should the Party Nuclei Exercise Their Vanguard Role in Production Tasks? by Armando Hart, 5 pp.
SPANISH, np, Granma, 23 Feb 1966, p. 2.
JPRS 35406

Public Order Patrol Workers Ensure the Peoples' Safety, by Alfredo Echarry, 8 pp.
SPANISH, np, Juventud Rebelde, 7 Apr 1966, p. 10; 8 Apr 1966, p. 10.
JPRS 35914

Argentine National Liberation Movement Answers Gilly Attack, by Jose Vazeilles, 7 pp.
SPANISH, np, Marcha, 29 Apr 1966, pp. 18 & 24.
JPRS 35642

Fall from Grace in Cuba, by Segundo Cazaliz, 5 pp.
SPANISH, np, La Republica, 26 Mar 1966, p. 7.
JPRS 35224

Report of National Administration of Communist Vanguard Published in Argentine Newspaper, 9 pp.
SPANISH, np, No Transar, 28 Apr 1966, p. 4.
JPRS 35848

Election of New Provincial Executive of ANAP in Oriente, by Rolando Castillo, 6 pp.
SPANISH, np, Sierra Maestra, 25 Feb 1966, pp. 1, 4.
JPRS 35210

Latin America
Political (Contd)

Bolivian Communist Party Calls for Unity
in the National Liberation Front, 11 pp.
SPANISH, per, Unidad, No 273, 19 Mar 1966,
pp. 4.
JPRS 35272

Castro Recommends No Death Penalty for Those
Accused of Plotting His Assassination, 6 pp.
SPANISH, per, Verde Olivo, Vol VII, No 11,
20 Mar 1966, pp. 15-18.
JPRS 35456

Argentine Trotskyite Organ Expresses Opinion
on Nature of Revolutionary Leadership, by J.
Posadas, 10 pp.
SPANISH, np, Voz Proletaria, 6 Apr 1966,
pp. 4, 5 & 7.
JPRS 35489

Guatemalan Revolutionary Movement Appeal
against Dictatorship, 7 pp.
SPANISH, np, Voz Proletaria, 6 Apr 1966,
pp. 5-6.
JPRS 35489

Colombian CP Congress a Milestone in Revo-
lutionary Work, 8 pp.
SPANISH, per, Voz Proletaria, No 125,
12 May 1966, pp. 14-15.
JPRS 35918

Military

Anti-Bandit Operations in Cuba, by Norberto
Fuentes, 8 pp.
SPANISH, np, Granma, 22 Feb 1966, p. 8.
JPRS 35837

Interview with An Assassin, by Norberto
Fuentes, 10 pp.
SPANISH, np, Granma, 13 Mar 1966, p. 8.
JPRS 35185

Cuban Military Penal System Described,
by Luis Pavon, 5 pp.
SPANISH, per, Verde Olivo, No 10, 13 Mar
1966, pp. 20-22.
JPRS 35456

Latin America
Geographic

Phytopsiognomy and Notes on the Vegeta-
tion of the Municipality of Curitiba, by
Roberto M. Klein and Gert Hatschbach, 20 pp.
PORTUGUESE, per, Boletim da Universidade do
Parana -- Geografia Fisica, No 4, Dec 1962,
pp. 5-27.
JPRS 35540

The Human Potential of the Northeast and
the Northern Part of the East, 31 pp.
PORTUGUESE, per, Revista Brasileira Geografia,
Jan-Mar 1965, No 1, pp. 145-164.
JPRS 35907

A Contribution to the Study of the Aracaju
Area of Influence, by Roberto Lobato Correa,
24 pp.
PORTUGUESE, per, Revista Brasileira Geografia,
Apr-June 1965, No 2, Vol. XXXVII, pp. 233-256.
JPRS 35907

A Review of the Municipal Divisions in the
State of Amazonas (Preliminary Report), by
Orlando Valverde and Catharina Vergolino
Dias, 12 pp.
PORTUGUESE, per, Revista Brasileira Geografia,
Apr-June 1965, No 2, Vol. XXXVII, pp. 272-
286.
JPRS 35907

The Geography of the Soils of Colombia, by
Joaquin Alvarez Lievano and Hernando Suarez
Fajardo, 46 pp.
SPANISH, per, Boletin de la Sociedad Geo-
grafica de Colombia, Vol XXIII, Nos. 85 &
86, 1st & 2nd Quarters of 1965, pp. 12-45 &
67-77.
JPRS 35362

New Map of Cuba's Mineral Deposits, by G.
Furrazola, C. Judoley and J. B. Solsona, 6 pp.
SPANISH, np, Nuestra Industria Tecnologica,
Nov-Dec 1965, pp. 20-23.
JPRS 35178

Brazilian Soils and Agrarian Reform, 13 pp.
SPANISH, per, Revista Brasileira de Geografia,
Jan-Mar 1965, No 1, pp. 129-136.
JPRS 35907

Latin America
Sociological

The Average Annual Growth of the Population
of the Northeast (1920-1950 and 1950-1960),
by Ariadne Soares Souto Mayor, Solange
Tietzmann Silva and Elizabeth Fortunata
Gentile, 15 pp.
PORTUGUESE, per, Revista Brasileira Geografia,
Apr-June 1965, No 2, Vol. XXXVII, pp. 294-302.
JPRS 35907

The Indigenous Problem in Venezuela: Its
Economic, Social, and Cultural Aspects,
by Jose Manuel Merida, 14 pp.
SPANISH, per, Cuadernos de la Corporacion
Venezolano de Fomento, No 5, Jan-Mar 1966,
pp. 49-67.
JPRS 35463

The Camilo Cienfuegos School Center in Cuba,
by Justina Alvarez, 11 pp.
SPANISH, np, Granma, 17 Mar 1966 and 18 Mar
1966.
JPRS 35178

The Birth Rate and Development by Jayme
Magrassi de Sa, 12 pp.
SPANISH, per, Revista Brasileira de Geografia,
Jan-Mar 1965, No 1, pp. 137-143.
JPRS 35907

SCIENTIFIC

Scientific
Aerospace (Contd)

Aerospace

Investigation of the Dynamics of Launching An Aircraft with Vertical Takeoff, by A. A. Bolonkin, 31 pp.
RUSSIAN, per, Issledovaniya po Dinamike Poleta, No 1, 1965, pp. 119-147
JPRS 35300

Determination of Optimal Control Processes for Winged Aircraft in Consideration of Limitations of Inequality Type, by V. Z. Bukreyev, 34 pp.
RUSSIAN, per, Issledovaniya po Dinamike Poleta, No 1, 1965, pp. 148-179.
JPRS 35300

Calculation by Successive Approximations of Trajectories of Multistage Rockets Guided Along A Ray, by T. N. Lumbovskaya, 23 pp.
RUSSIAN, per, Issledovaniya po Dinamike Poleta, No 1, 1965, pp. 237-256.
JPRS 35300

Flight of a Missile on a Ballistic Trajectory with Consideration of Rotation of the Earth, by I. V. Strazheva, 20 pp.
RUSSIAN, per, Issledovaniya po Dinamike Poleta, No 1, 1965, pp. 283-301.
JPRS 35300

On the Expediency of Stabilizing Pitch Angle during Flight in Turbulent Atmosphere, by I. V. Ostoslavskiy, 7 pp.
RUSSIAN, per, Issledovaniya po Dinamike Poleta, No 1, 1965, pp. 302-307.
JPRS 35300

On the Formation of A Stabilization Contour Of a Pilotless Airborne Vehicle, by I. V. Ostoslavskiy, I. V. Strazheva, 31 pp.
RUSSIAN, per, Issledovaniya po Dinamike Poleta, No 1, 1965, pp. 308-337.
JPRS 35300

Space Research Transactions of the All-Union Conference on Space Physics, by G. A. Skuridin, Ya. L. Al'pert, 821 pp.
RUSSIAN, bk, Issledovaniya Kosmicheskogo Prostranstva, Trudy Vsesoyuznoy Konferentsii po Fizike Kosmicheskogo Prostranstva, June 10-16, 1965. 9231810-V
NASA TT F-389

Temperature Profiles in Bodies Traveling at High Altitudes at Hypersonic Speed, by I. N. Murzinov.
RUSSIAN, Izvestiya Akad Nauk SSSR. Mekhanika i Mashinostroyeniye, No 4, 1964, pp 148-150.
9700751
FTD-TT-65-1478

Friction and Ventilation Losses in Rotor Blade Assemblies of Radial Flow Turbines of Helicopter and Transport Gas-Turbine Installations, by N. F. Galitskiy,
RUSSIAN, per, Izv VUZ Ser Aviats Tekhn, Vol VII, No 4, 1964, pp 60-66.
*NASA TT F-10,118

Tests With Stagnation-Temperature Sensors Having an Internal Channel by the Equivalent Pressure Drop Method, by B. C. Vinogradov, M. D. Yermolayev.
RUSSIAN, per, Izv VUZ Aviats Tekhn, No 3, 1965, pp 157-162.
NASA TT F-10,041

An Energy Accumulator in the Problems of the Optimal Power Limited Space Flight, by G. L. Grodzovsky, B. N. Kiforenko.
RUSSIAN, bk, Nakopitel' Energi V Zadachakh Optimizatsii Kosmicheskogo Poleta s Organich-ennoy Mashnost'yu, 1965.
*FTD-HT-66-295

Supersonic Passenger Plane, by D. Pipko.
RUSSIAN, per, Nauka i Zhizn, No 9, 1965, pp 34-37.
*FTD-HT-66-288

The Testers, by D. Pipko.
RUSSIAN, per, Nauka i Zhizn', No 4, 1966, pp 42-52.
*FTD-HT-66-352

Commanders of Fiery Arrows; Remarks About Rocket Designers and Rockets, by L. A. Ekonomov.
RUSSIAN, bk, Poveliteli Ognennykh Streli (Slovo O Raketchikakh I Raketakh), 1964, pp 1-319.
*FTD-MI-66-57

Mock-up of Luna 9.
RUSSIAN, np, Pravda, 28 Mar 1966, p 6, cols 3-6.
*FTD-HT-66-345

Scientific Aerospace (Contd)

Launching of Guided Rockets, by M.V. Patrikeytsev
83 pp.
RUSSIAN, bk, Pusk Upravlyayemykh Raket, Moskva
1963, pp 1-83. 9700771-V
FTD-MT-64-528

The Assault on Outer Space Goes on. 4 pp.
RUSSIAN, per, Tekhnika i Vooruzheniya, No 10,
1964, pp 2-3. 9700446
FTD-TT-65-1903

Use of the Emission Spectrum of the
Copper Atom For Plasma Diagnostics,
by G. I. Bakanovich, L. I. Grechikhin.
RUSSIAN, per, Teplofiz Vysok Temp, Vol III,
No 4, 1965, pp 520-523.
NASA TT F-10,067

Air-Cushion Transports (Selected Articles), by
S. A. Adasinskiy. 55 pp.
RUSSIAN, bk, Ak. Nauk SSSR. Transportnye Mashiny
Na Vozdushnoy Podushke (Russian), Moskva, 1964,
pp 23-43, 79-102, & 107. 9700768-V
FTD-MT-65-564

Spectrophotometric Comparison of Martian
Continents With Red-Colored Terrestrial Caprock,
by I. I. Lebedeva.
RUSSIAN, per, Trudy Astron Observ Ser Mat Nauk,
Vol XXII, No 39, 1965, pp 125-131.
NASA TT F-10,081

On one Problem of the Synthesis of Optimum Control
With Limitations Placed on Phase Coordinates and
the Rate of Change of the Controlling Action, by
V. P. Cheprasov. 15 pp.
RUSSIAN, per, Trudy Kazan. Aviatsionnyy Institut,
No 75, 1963, pp 91-101. 9700447
FTD-MT-64-315

The Problem of Evaluating Afterburners in a
Turbojet Engine System, by V. A. Kosterin.
RUSSIAN, per, Trudy Kazan. Aviatsionnyy Institut,
(Aviatsionnye Ovzateli), No 76, 1963, pp 50-62.
*FTD-MT-66-351

The Electronics and Guidance of Interplanetary
Flight, by Tan Wei Yi. 9 pp.
CHINESE, per, Mu Hsien Tien, No 11, 1963,
pp 1-3. 9700769
FTD-TT-65-1430

Scientific Aerospace (Contd)

Physical Rocket Engines, by Marcel Grun.
CZECH, per, Ceskoslovensky Casopis Pro Fysiku,
No 3, 1965, pp 207-244.
*FTD-HT-66-300

Measurement of Stress Fatigue in Flight,
by J. P. Weibel.
FRENCH, rpt, Meeting of International Committee
on Aeronautical Fatigue in Munich, Jun 1965,
9232786
AEC SC-T-66-0719

Ignition of Hybrid Rockets, by M. Barrere.
FRENCH, per, La Recherche Aerospaciale,
No 104, pp 33-48, 1965.
Dept of Navy Tr 4726/APL/JHU T-1781

Method for the Non-Dispersive Analysis of
Very Light Elements, by R. Castaing, F. Pichoir.
FRENCH, per, Recherche Aerospaciale,
No 108, 1965, pp 3-16.
*NASA TT F-422

Two-Composition Spherical Solid-Fuel
Rocket Engine, by P. Larue.
FRENCH, per, La Recherche Aerospaciale,
No 109, 1965, pp 21-29.
*Dept of Navy/APL/JHU J-828

Linear Pyrolysis Rate of Ammonium Perchlorate
in a One-Dimensional Flow, by M. Guinet.
FRENCH, per, La Recherche Aerospaciale,
No 109, pp 41-49, 1965.
*Dept of Navy/APL/JHU J-829

Theoretical Studies of the Dynamic Stability of
Parachutes, by R. Ludwig, W. Heins. 17 pp.
GERMAN, bk, Jahrbuch der WGLR, 1962,
AEC SC T-64-2003 9227071

Rocketsonde Wind Measurements Up to the Meso-
pause in Sardinia, by M. Schurer. 55 p.
GERMAN, rpt, Report on Federal Ministry of
Defense Contract No T-472 BMVtdg, April 1965.
9700558
AFCRRL T-G-248

Types of Cosmonautic Bodies for 1957-1964,
(Selected Parts), by H. Pfaffe, P. Stache. 114 pp.
GERMAN, bk, Typenbuch Der Raumflugkoerper, 1957-
1964, Deutscher Militaerverlag, Berlin, 1964,
pp 5-7, 10-17, 32-35, 73-84, 112-118, 130-133,
140-145, 167-175, 178-198, 217-230. 9700757-V
FTD-TT-65-992

Scientific Aerospace (Contd)

Exobiological Studies of Interplanetary Space and Upper Atmospheric Layers, by K. Tzonis.
GREEK, rpt., Paper Presented at the 16th International Astronautical Congress, Athens, Sept 13-18, 1965.
NASA TT F-10,055

Russian Space Travel; Vostok-Voskhod. HUNGARIAN, per, Tudor, 25 May 1965, p 1.
*FTD-HT-66-4nc

Acceleration, Gravity and Weightlessness, by J. Grzegorzevski, Z. Skierski, 142 pp.
POLISH, bk, Przypieszenia Przeciacenia Niewazkosc, Warszawa, 1964, pp 152. 9700610-V
FTD-TT-65-309

Agriculture

Automation of Production Processes at Live-Stock Farms, by R. M. Slavin.
RUSSIAN, bk, Avtomatizatsiya Proizvodstvennykh Protsessov Zhivotnovodcheskikh Ferm, 1965, 395 pp.
NLL R. 39074

Raising the Content of Protein and other Nutrients in a Perennial Grass Mixture by Selecting its Components and by Cutting at the Most Favorable Time, by I. P. Pavlov.
RUSSIAN, per, Dok Vses Ordona Lenin Ak Sel'skokhoz nauk imeni V. I. Lenina, No 3, 1958, pp 11-16.
CFSTI TT 65-50077

Vitamins of Plants, by A. Urman, 5 pp.
RUSSIAN, nps, Ekonomicheskaya Gazeta, No 47, Nov 1965, pp 40-41.
ACSI I-9308
ID 2204012366

Proposals for Improving Grain Farming, by I. Khoroshilov, 5 pp.
RUSSIAN, np, Investiva, 24 Mar 1966, p. 3.
JPRS 35401

Scientific Agriculture (Contd)

Birch Forest Types in Northern Kazakhstan, by L. F. Demidovskaya.
RUSSIAN, per, Iz Ak Nauk Kazakh SSR, Ser Botan i Pochvov, No 1, 1958, pp 16-27.
CFSTI TT 65-50107

Effect of Improvement Cutting on the Growth of Pine Stands Established by patch Planting, by N. T. Smirnov.
RUSSIAN, per, Iz VUZ Lesnoi Zhur, Vol III, No 1, 1960, pp 43-48.
CFSTI TT 65-50040

Improvements in Forest Growth on Peat-Bog Soils of the USSR Forest Zone and Tundra, by N. I. P'yavchenko.
RUSSIAN, bk, Materialy po Izucheniyu Lesorastitel'nykh Uslovii na Torfyano-Bolotnykh Pochvakh lesnoi Zony i v Tundre, Moscow, 1957.
CFSTI TT 65-50054

Prospects and Tasks of Complex Mechanization of the Forestry Industry, by F. D. Varaksin.
RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya Proizvodstva, No 3, March 1966, pp 27-32.
*ACSI J-0124
ID 2204031566

Methods of Improving Low-Value Plantations, by P. P. Izyumskiy.
RUSSIAN, bk, Metody Obnovleniya Malotsennykh Nasazhdenni, 1965, 152 pp.
NLL R. 39473

New High-Yield Grain Varieties, by V. P. Budyuk.
RUSSIAN, bk, Novye Vysokoproduktivnye Sorta Zernovykh Kul'tur, 1965, 320 pp.
NLL R. 39367

Storehouses of Proteins Leguminous Plants-- Valuable Fodder Crops, by A. P. Lisenkov.
RUSSIAN, per, Priroda, No 4, 1962, pp 12-14.
CFSTI TT 65-50078

The Alteration of the Minerals of Syenite in the Initial Stages of Soil Formation, by E. A. Yarilova.
RUSSIAN, per, Trudy Ak Nauk SSSR, Pochvennogo Inst im. V. V. Dokuchaeva, Vol XXXIV, 1950.
CFSTI TT 65-50084

Scientific Agriculture (Contd)

Data on History of Investigations of the Fertilization Process in Angiosperms, by V. A. Poddubnaya-Amol'di.
RUSSIAN, per, Trudy Glavnog Botan Sada (Pushkinskoe), Vol VI, 1949, pp 7-48.
CFSTI TT 65-50053

The Effect of Irradiation of Wheat Endosperms on the Growth and Development of the Plants, by L. M. Fonshtein.
RUSSIAN, per, Trudy Inst Genetik Ak Nauk SSSR, No 28, 1961, pp 153-157.
CFSTI TT 65-50024

Density of Pine Plantations and its Biological and Silvicultural Significance, by V. N. Ovsyankin, Yu. N. Savich.
RUSSIAN, per, Trudy Inst Lesokhoz Problem, No 11, 1956, pp 121-162.
CFSTI TT 65-50041

Soil Microbiology and Its Current Problems, by Ye. N. Mishustin.
RUSSIAN, per, Trudy Inst Mikrobiol Ak Nauk SSSR, Vol I, No 1, 1955, pp 155-175.
NASA TT F-414

Preliminary Refining of High-Acid Cotton-seed Oil by Urea, by A. S. Sultanov, et al.
RUSSIAN, per, Trudy Vses. Nauch-Issled. Inst. Zhirov, No 23, 1963, pp 280-285.
NLL Ref: 5828.4 1965 (5794)

The Intensification of Agriculture and the Effectiveness of Fixed Assets, by N. Linkun, and Sh. Mamedov, 9 pp.
RUSSIAN, per, Voprosy ekonomiki, No 2, Feb 1966, pp. 125-130.
JPRS 35811

Specialization in Agricultural Production, by Stavri Mariani, 18 pp.
ALBANIAN, per, Ekonomia Popullore, No 1, Jan 1966, pp. 29-45.
JPRS 35510

Developing a Path to the Mechanization of Our Country's Agriculture, by Liu Pang, 11 pp.
CHINESE, mp, Jen-min Jih-pao, 13 Apr 1966, p. 2.
JPRS 35532

Scientific Agriculture (Contd)

Profitability in Agriculture and the New System, by Dr. Josef Nikl, 10 pp.
CZECH, per, Zivot Strany, No 7, Apr 1966, pp. 35-39.
JPRS 35487

Electron Microscopy Investigations of the Development of Normal and X-Ray Irradiated Cells of the Wheat Embryo, by K.H. von Wangenheim.
GERMAN, per, Radiation Botany, Vol 5, 1965, pp 403-416. 9232884
AEC ORNL-tr-1120

Equipment for Application of Agricultural Chemicals, 7 pp.
POLISH, per, Mechanizacja Rolnictwa, No 7, 1-15 Apr 1966, pp. 10-15.
JPRS 35599

Present Problems of Irrigation, by Barbu Popescu, 5 pp.
RUMANIAN, per, Agricultura Socialista, Vol 4, No 13(165) 31 Mar 1966, pp. 1-2,
JPRS 35434

Scientific Research on Mechanizing Agriculture, by Dragos Toma, 11 pp.
RUMANIAN, per, Mecanizarea si Electrificarea Agriculturii, Vol 11, No 3, Mar 1966, pp. 6-13.
JPRS 35769

Biological & Medical Sciences

Studies in Anatoxins, by A. A. Vorob'yev, N. N. Vasil'yev, and A. T. Kravchenko, 119 pp.
RUSSIAN, bk, Anatoksyny, 1965, pp. 3-5, pp. 7-10, 11-25, 26-136.
JPRS 35268

Experimental Study of Methicillin on Monkeys, by B. S. Prokhorova, I. S. Gvazava, L. V. Dan'ko, 5 pp.
RUSSIAN, per, Antibiotiki, Vol XI, No 3, Mar 1966, pp. 245-247.
JPRS 35678

Scientific
Biological & Medical Sciences (Contd)

Mechanism of Development of Scleral Papillae in the Eye of Chick Embryo, by V. Puchkov.
RUSSIAN, per, Arkh Anat, Vol XLVI, No 5, 1964, pp 16-24.
HEW NIH No 5-31-66

Morphogenetic Apparatus of the Scleral Ossicles of the Chick Embryo Eye, by V. F. Puchkov.
RUSSIAN, per, Arkh Anat, Vol XLVIII, No 6, 1965, pp 11-21.
HEW NIH No 5-35-66

Bibliographic Guide of Soviet Literature on Fisheries and Related Services for 1962 and the First Half of 1964, 231 pp.
RUSSIAN, rpts, Bibliograficheskiy spisok literatury po rybnomu khozyaystvu, rybnoy promyshlennosti i smezhnym naukam za 1962, 1964, pp. 1-185, and Bibliograficheskiy ukazatel' otechestvennoy literatury po rybnomu khozyaystvu i rybnoy promyshlennosti za pervoye polugodiye 1964, 1964, pp. 1-74.
JPRS 35472

A Hormone-Enzyme Complex: Insulin and Hexokinase, by V. S. Il'in.
RUSSIAN, per, Biokhim, Vol XXX, No 6, 1965, pp 1251-1256.
HEW NIH No 4-25-66

Reconstruction of Biologically Active Ribosomes from Protein-Deficient Ribonucleoprotein Particles and Ribosomal Protein, by A. S. Spirin, M. I. Lerman, L. P. Gavrilova and N. V. Belitsina, 12 pp.
RUSSIAN, per, Biokhimiya, Vol 31, No 2, Mar-Apr 1966, pp. 424-430.
JPRS 35729

Some Changes in the Protein Complex of the Rye Endosperma on the Germination of the Grain and the Heating of the Flour, by F. Bonesh, et al.
RUSSIAN, per, Biokhimiya Zerna i Khlebopecheniya, No 7, 1964, pp 151-158.
NLL RIS 2907

Assuring Radiation Safety Aboard Atomic Powered Ships, by B. L. Broder, K. K. Popkov, 15 pp.
RUSSIAN, rpt, Biologicheskaya Zaashchita Sudovykh Reaktorov, Chap XIII, 1964, pp 305-320.
Dept of Navy Tr 4597/ONI Tr 2088-a

Scientific
Biological & Medical Sciences (Contd)

Principles of Design and Arrangement of Biological Shielding in Marine Reactors, by B. L. Broder, K. K. Popkov, 9 pp.
RUSSIAN, rpt, Biologicheskaya Zaashchita Sudovykh Reaktorov, Chap XIII, 1964, pp 321-329.
Dept of Navy Tr 4598/ONI Tr 2088-b

Selection from: Biological Effect of Ultrasonic, by S. I. Gorshkov.
RUSSIAN, bk, Biologicheskoye Deystviye Ul'travzuka, Moscow, 1965, pp 3-6; 7-40; 154-186; 196-197.
*JPRS/SF-4249

The Mitotic Index and Activity of Mitotic Divisions in the Early Stages of the Development of the Chick Embryo, by A. K. Donduz, et al.
RUSSIAN, per, Bull. Eksp.'noi Biologii I Med. Vol 61, No 4, 1966, pp 84-88.
*AEC ORNL-tr-1254
EDC 23 Jun 66

Localization of Larvae of Mullerius Capillaris, Cystocaulus Nigrescens, and Synthetocaulus spp. in Mollusks and Mechanism of Their Escape From the Feet of the latter, by E. A. Davtian.
RUSSIAN, per, Dokl. Akad. Nauk Armianskoy SSR, Vol 6, No 1, 1947, pp 23-26.
HEW NIH 5-3-66

Modern Technical Advances in Medicine, by Ye. B. Babskiy and V. V. Parin, 145 pp.
RUSSIAN, bk, Dostizheniya sovremennoy tekhniki v meditsine, 1965, pp. 1-172.
JPRS 35611

Ultraviolet Rays for Protection of Plants, by M. I. Zhigal'tseva, S. N. Chernobrovina, 5 pp.
RUSSIAN, per, Elektronnaya Obrabotka Materialov, No 1, 1965, pp. 78-81.
JPRS 35288

Electrical Preplanting Treatment of Seeds, by A. P. Ivanov, 5 pp.
RUSSIAN, per, Elektronnaya Obrabotka Materialov, No 2, 1965,
JPRS 35414

Electrical Processing of Foodstuffs - Separation of Feed Yeast from Molasses Residuum by the Electric Flotation Method, by B. M. Matov and S. P. Pursov, 5 pp.
RUSSIAN, per, Elektronnaya Obrabotka Materialov, No 2, 1965
JPRS 35414

Scientific
Biological & Medical Sciences (Contd)

The Problem of Light Pulse Treatment of Seeds and Plants, by A. A. Shakhov, 18 pp.
RUSSIAN, per, Elektronnaya Obrabotka Materialov, No 2, 1965
JPRS 35414

Studies in Philosophical Problems in Medicine and Biology, by Ye. G. Fedorenko, 9 pp.
RUSSIAN, bk, Filosofskie Voprosy Meditsiny i Biologii, 1965, pp. 5-11 and 255.
JPRS 35186

Toxic Effect of High Oxygen Pressures on the Living Organism. Report 3. Nature of Spasmodic Gases in Warm Blood Animals, Subjected to the Effect of High Oxygen Pressures, by S. I. Prikladovitskiy. 21 pp.
RUSSIAN, per, Fiziologicheskiv Zhurnal SSSR, Vol. 20, No 3, 1935, pp 507-517. 9700762
FTD-TT-65-966

A Method for Investigating the Physiology of Absorption and Movement in the Small Intestine of Birds, by V. V. Li, A. Ch. Li.
RUSSIAN, per, Fiziologicheskii Zhurnal SSSR, Vol 8, 1962, pp 997-999.
NLL RIS 3153

Physiological Methods in Cosmonautics, by R. N. Bayevskiy.
RUSSIAN, bk, Fiziologicheskiye Metody v Kosmonavtike, Moscow, 1965, 300 pp.
JPRS/SF-4255

Metabolic Physiology of Microorganisms and the Evolution of Functions, by V.N. Shaposhnikov. 214 pp.
RUSSIAN, bk, Fiziologiya Obsnna Veshchestv Mikroorganizmov v Svyazi s Evolyutsiyey Funktsiy, Moskva, 1960. 163 pp. F700758-V
FTD-TT-65-516

Helminthofauna of Marine Mammals in the Light of their Ecology and Phylogeny, by S. L. Delyamure.
RUSSIAN, bk, Gel'mintofauna Morskikh Mlekopitayushchikh v Svete ikh Ekologii i Filogenii, 1955, 517 pp.
CRSTI TT 67-51202

The Biological Effect of Stable Noise at Various Levels, by A. A. Arkad'yevskiy, 5 pp.
RUSSIAN, per, Gigiyena truda i professional'nyye zaboliveniya, Vol 10, No 1, 1966
JPRS 35,645

Scientific
Biological & Medical Sciences (Contd)

Carbohydrate Components in Blood Serum Proteins During Anthracosilicosis, by V. V. Nikol'skiy, A. P. Budnik, 5 pp.
RUSSIAN, per, Gigiyena truda i professional'nyye zaboliveniya, Vol 10, No 1, 1966
JPRS 35,646

Clinical and Biochemical Data on the Influence of General and Local High-Frequency Vibration on the Metabolism of Certain Vitamins, by A. S. Mal'kunova N. N. Pushkina, 7 pp.
RUSSIAN, per, Gigiyena truda i professional'nyye zaboliveniya, Vol 10, No 1, 1966
JPRS 35,648

Clinical-Morphological Investigations into the Influence of Silica Aerogel Upon the Upper Respiratory Tract, by T. S. Sunargulov, Ye. Z. Lisnyanskiy, 5 pp.
RUSSIAN, per, Gigiyena truda i professional'nyye zaboliveniya, Vol 10, No 1, 1966
JPRS 35,648

Experimental Data on the Utilization of Certain Factors to Inhibit the Development of Silicosis, by I. S. Ostrovskaya, 8 pp.
RUSSIAN, per, Gigiyena truda i professional'nyye zaboliveniya, Vol 10, No 1, 1966
JPRS 35,648

Health Characteristics of Conditions for Medical Personnel Working With Sources of Radio Frequency Range Electromagnetic Fields, by Ye. I. Smurova, 5 pp.
RUSSIAN, per, Gigiyena truda i professional'nyye zaboliveniya, Vol 10, No 1, 1966
JPRS 35,648

Protein Metabolism in Patients with Toxic Hepatitis, by L. A. Goryacheva, 7 pp.
RUSSIAN, per, Gigiyena truda i professional'nyye zaboliveniya, Vol 10, No 1, 1966
JPRS 35,648

The Significance of Forced Expiration Roentgen Kymography in Evaluating Pulmonary Insufficiency in Pneumonotic Patients, by A. M. Levenduk, 6 pp.
RUSSIAN, per, Gigiyena truda i professional'nyye zaboliveniya, Vol 10, No 1, 1966
JPRS 35,648

Scientific
Biological & Medical Sciences (Contd)

On the Combined Effect of Carbon Monoxide and Ammonia on the Organism, by V. V. Kustov and V. I. Mikhaylov, 5 pp.
RUSSIAN, per, Gigiyena Truda i Professional'-nyye Zabolevaniya, No 3, 1966, pp. 6-9.
JPRS 35927

On the Toxicology of 2-Vinyl Pyridine, by A. I. Dukhovnaya, 6 pp.
RUSSIAN, per, Gigiyena Truda i Professional'-nyye Zabolevaniya, No 3, 1966, pp. 9-13.
JPRS 35927

On Comparative Evaluation of the Toxicity of Trifluoroacetic and Pentafluoropropionic Acids, by G. I. Kheylo, S. N. Kremneva, 7 pp.
RUSSIAN, per, Gigiyena Truda i Professional'-nyye Zabolevaniya, No 3, 1966, pp. 13-17.
JPRS 35927

On a Hygienic Evaluation of High-Frequency Intermittent Noise of Production, by A. Z. Marinyako, 5 pp.
RUSSIAN, per, Gigiyena Truda i Professional'-nyye Zabolevaniya, No 3, 1966, pp. 18-22.
JPRS 35927

On the Fibrogenic Effect of Copper Dust and Cupric Oxide on the Lungs in Experimental Conditions, by G. B. Kuznetsov, 7 pp.
RUSSIAN, per, Gigiyena Truda i Professional'-nyye Zabolevaniya, No 3, 1966, pp. 22-27.
JPRS 35927

On Use of the Tissue Culture Method for Rapid Comparative Evaluation of the Pneumoconiosis Hazard of Industrial Dusts, by A. P. Dorinovskaya, B. A. Katsnel'son and L. G. Babushkina, 9 pp.
RUSSIAN, per, Gigiyena Truda i Professional'-nyye Zabolevaniya, No 3, 1966, pp. 27-33.
JPRS 35927

Effect of Benzol and Fluorine on the Development of Experimental Atherosclerosis, by G. N. Kut'minskaya, 6 pp.
RUSSIAN, per, Gigiyena Truda i Professional'-nyye Zabolevaniya, No 3, 1966, pp. 33-36.
JPRS 35927

Scientific
Biological & Medical Sciences (Contd)

Some Early Manifestations of Chronic Intoxication with Organic Solvents in Metal Painters, by V. I. Boyko, 6 pp.
RUSSIAN, per, Gigiyena Truda i Professional'-nyye Zabolevaniya, No 3, 1966, pp. 37-41.
JPRS 35927

On the Protective Effect of Pectins against the Poisoning of Animals with an Aerosol of Lead, by P. A. Chayka, 6 pp.
RUSSIAN, per, Gigiyena Truda i Professional'-nyye Zabolevaniya, No 3, 1966, pp. 47-49.
JPRS 35927

Proposed Changes in the Structural Organization of Medical Research, by N. Amosov, 6 pp.
RUSSIAN, np, Izvestiya, 5 Mar 1966, p. 3.
JPRS 35925

The Initial Stages of the Metabolism of Pentoses by Micro-Organism, by Yu. N. Karasevich.
RUSSIAN, per, Izvestiya Ak Nauk SSSR, Seriya Biologicheskaya, 1965, pp 213-242.
NLL RTS 3109

Rational Technological Process of Obtaining Essential Oil from Badyan Fruits-Research and Methodology, by A. F. Polyakov, Nguyen-Nang Vin, 11 pp.
RUSSIAN, per, Iz VUZ Pishchevaya Tekhnologiya, No 4(47), 1965.
ACSI I-9178
ID 2204003266

Chromatographic Investigation of Sugars in Heat Processing of Fruit Concentrates, by I. Vashatko, A. Pribels.
RUSSIAN, per, Iz VUZ Pishchevaya Tekhnologiya, No 6, 1965, pp 17-20.
ACSI I-9309
ID 2204012466

Host Reservoirs in the Developmental Cycle of the Nematode Filaroides Bronchialis, by A. A. Dubnitskiy.
RUSSIAN, per, Karak Zver, Vol VIII, No 3, 1955, pp 51, 52.
HEW NIH No 4-38-66

**Scientific
Biological & Medical Sciences (Contd)**

Method for Determining Pulse Wave Velocity,
by I. M. Kayevitser.
RUSSIAN, per, Klinich Med, Vol XXXVI, 1958,
pp 142-144.
NASA TT F-10,064

The Mathematical Apparatus of Biological
Cybernetics, by N. A. Bernstein, 289 pp.
RUSSIAN, bk, Matematicheskiy Apparat Biologicheskoy Kibernetiki, 1964, pp. 1-374.
JPRS 35470

New Drugs Approved for Use in Medical
Practice, by T. G. Soldatova.
RUSSIAN, per, Meditinskaya Promyshlennost SSSR, No 11, 1965, pp 58-59.
NLL Shelf Mark 0105

On the Objective Analysis of Atmospheric
Fronts on a Surface Weather Map, by E. I.
Kostyryachenko, 5 pp.
RUSSIAN, per, Meteorologiya i hidrologiya,
No 3, Mar 1966, pp. 37-40.
JPRS 35188

Microgenetics, by I. A. Rapoport, 427 pp.
RUSSIAN, bk, Mikrogenetika, Moscow, 1965.
CFSTI TT 67-51207

Modeling in Biology and Medicine,
by N. N. Amosov, S. L. Aleyev.
RUSSIAN, bk, Modelirovaniye v Biologii i Meditsine, 1965, pp 1-188.
JPRS/SF-4274

Morphological Peculiarities of Aquatic
Mammals, by S. Ye. Kleinenberg, 128 pp.
RUSSIAN, bk, Morfologicheskiye Osobennosti Vodnykh Mlekopityayushchikh, Moscow, 1964.
JPRS/SF-4277

From Experience in Sage-Guarding the Health
of Deep-Water Divers, by V. F. Nikitin.
RUSSIAN, per, Morskoy Sbornik, No 9, 1965,
pp 75-78.
Dept of Navy Tr 4708/ONI 2168

Recommended Books on Cybernetics, by A. S.
Venkatesan and V. G. Guarav, 10 pp.
RUSSIAN, per, Morskoy Sbornik, No 3, Mar
1966, pp. 91-96.
JPRS 35465

**Scientific
Biological & Medical Sciences (Contd)**

Excerpts from Soviet Book on Synthetic
Electromechanical Cardiology, by Z. L.
Dolabchyan, 34 pp.
RUSSIAN, bk, Ocherki Sinteticheskoy Elektro-mekhanokardiologii, 1965, pp. 5-10, 303-320,
JPRS 35919

Studies in Biological and Machine Memory,
by A. F. Girshkov, N. A. Aladzhalova, R. M.
Granovskaya and V. A. Ganzen, 26 pp.
RUSSIAN, bk, Operativnyye i Postoyannye Zapominayushchiye Ustroystva, 1964, pp. 164-171; 172-178; 179-186.
JPRS 35654

One Method for Completely Describing One-Dimensional Patterns By a Set of Simple
Functions, by I. T. Turbovich and O. A.
Petrov, 7 pp.
RUSSIAN, per, Opoznanie Obrazov - Teoriya Peredachi Informatsii, 1965, pp. 25-29.
JPRS 35475

Key to Amphibians and Reptiles,
by P. V. Terent'yev, S. A. Chernov, 257 pp.
RUSSIAN, bk, Opredelitel' Presmyakayushchikha i Zemnovodnykh, Moscow, 1949.
CFSTI TT 65-50104

Basic Questions of the Electrophysiology of the
Central Nervous System (Collection of ARTicles).
241 pp.
RUSSIAN, rpt, Osnovnyye Voprosy Elektrofiziologii Tsentral'noy Nervnoy Sistemy, 1962, pp 1-232.
9700608-V
FTD-MT-65-210

Application of Sugar Test for the Evaluation
of the Coronary Circulation, by
E. A. Zhuk, E. L. Kilinskiy, 12 pp.
RUSSIAN, rpt, Primenenie Sakharinoi Proby dlia Otsenki Sostoianiia Koronarnogo Krovosrashcheniya, pp 87-93.
Dept of Navy Tr 4713/NMC No 1072

Biochemistry and the Food Industry, by
A. I. Oparin, 14 pp.
RUSSIAN, per, Priroda, No 11, Nov 1965, pp 17-25.
ACSI I-9655
ID 2204021866

**Scientific
Biological & Medical Sciences (Contd)**

From a Cell To An Organism, by A. Kh. Tambiyev, 13 pp.
RUSSIAN, per, Priroda, No 12, 1965,
pp. 32-38.
JPRS 35590

Chemosterilization in Insect Control, by V. S. Odintsov, 5 pp.
RUSSIAN, per, Priroda, No 12, 1965, pp. 72-75.
JPRS 35590

Etiology and Pathogenesis of Transfusion Reactions, by R. M. Glants, 13 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, Vol II, No 3, Mar 1966, pp. 24-31.
JPRS 35677

A Study of Some Physico-Chemical and Antigenic Properties of γ -Globulin in the Course of Prolonged Storage, by M. Z. Rudnitskaya, 5 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, Vol II, No 3, Mar 1966, pp. 45-48.
JPRS 35677

Ionite Method Applied to Obtaining of Desalinated Apyrogenic Water from the Water Derived from Water-Mains, by P. E. Shimolin and V. I. Bochkareva, 5 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, Vol XI, No 1, Jan 1966, pp. 54-57.
JPRS 34970

Bone Marrow Preservation at Low Temperatures For Use Under Clinical Conditions, by A. G. Fedotankov I. D. Shishkina, 7 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, Vol II, No 2, 1966.
JPRS 35,817

Clinico-immunological Problems of Transplantation of Marrow, by F. E. Faynshteyn, Ye. A. Zotikov, 5 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, Vol II, No 2, 1966.
JPRS 35,817

**Scientific
Biological & Medical Sciences (Contd)**

Immunological Competence of the Trunk Hemopoietic Cells and Its Significance in the Problem of Marrow Transplantation in the Clinic, by I. L. Chertkov, 10 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, Vol II, No 2, 1966.
JPRS 35,817

On the Problem of Hemopoietic Tissue Transplantation Under Experimental Conditions, by R.V. Petrov, 6 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, Vol II, No 2, 1966.
JPRS 35,817

Some Ways of Overcoming Secondary Disease in Experimental Work, by R. V. Petrov, Yu. M. Zaretskaya, 9 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, Vol II, No 2, 1966.
JPRS 35,817

Transplantation of Hemopoietic Cells, by George Mathe, 11 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, Vol II, No 2, 1966.
JPRS 35,817

Transplantation of Homologous Bone Marrow and Intravenous Injection of Whole Blood to Superlethally Irradiated Dogs, by A. S. Maximenko, 8 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, Vol II, No 2, 1966.
JPRS 35,817

Treatment of Radiation Leukopenia by Bone Marrow Transplantation, by A. A. Gabelov, M. A. Koyro, 5 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, Vol II, No 2, 1966.
JPRS 35,817

Induced Caisson Manifestations in Animals and Altitude, by P. M. Gramenitskiy, A. A. Savich, 11 pp.
RUSSIAN, rpt, Provokatsiya Kessonnnykh iavlenii u Zhivotnykh. Vysheshishikh iz-pod Povyshennogo davlenija. Putem Posledujushchego Pod'ema ikh na Vysotu, pp 35-42.
Dept of Navy Tr 4719/NMC No 1078

Scientific
Biological & Medical Sciences (Contd)

Fauna of the USSR.
RUSSIAN, rpt, Prymokrylye; Kuznechikovye;
Podsem. Listovye Kuznechiki, Mosc-Lenin, 1954.
CFSTI TT 65-50014

Critical Period in the Development of Scleral
Papillae of the Eye of Chick Embryos,
Revealed by Effect of X-Rays,
by V. F. Ruchkov.
RUSSIAN, bk, Radiobiol, Vol I, No 3, 1961,
pp 437-439.
HEW NIH No 5-28-66

Radiobiology.
RUSSIAN, per, Radiobiologiya, Vol 6, No 2, 1966,
pp 161-336
*AEC

Speech: Articulation and Perception, by V. A.
Kozhevnikov and L. A. Chistovich, 272 pp.
RUSSIAN, bk, Rech: Artikulyatsiya i Vospri-
yatiye, 1965, pp. 1-241.
JPRS 30543

Excerpts from Referativnyy Zhurnal -- Kibernetika,
62 pp.
RUSSIAN, per, Referativnyy Zhurnal -- Kibernetika,
no 3, 1966, pp 1-23.
JPRS 35610

Studies on Microscopic Anatomy of the
Domestic Hen. V. Histological Structure
of the Glandular Stomach of the Hen,
by E. M. Ledyasova.
RUSSIAN, per, Sbornik Rabot Leningrad
Vet. Inst., Vol 22, 1959, pp 435-441.
NLL RIS 3187

Bioelectrically Controlled Upper Extremity
Prostheses, by Christopher H. Dodge.
RUSSIAN, per, Sbornik Trudov, Tsentral'nyy
Nauchno-Issledovatel'skiy Institut Protezostroy-
eniya, No. 10, (14), 1964.
ATD 66-46

Section on Cybernetics, 72 pp.
RUSSIAN, bk, Sektsiya Kibernetiki,
XXII Vsesoyuznaya Nauchnaya Sesiya,
Polyazhennaya UNIV Radio, Moscow, 1966.
JPRS/DC-17413

Scientific
Biological & Medical Sciences (Contd)

Dreams During Normal Sleep and During
Hypnosis, by I. Ye. Vol'pert.
RUSSIAN, bk, Snovideniya v Obychnon
Sne i Gipnoze, Leningrad, 1966, pp 1-275.
*JPRS/DC-12446

Berylliosis, by A. E. Vermel.
RUSSIAN, per, Sovetskaya Meditsina, Vol 25,
1961, pp 41-54.
NLL RIS 2980

Application of Bionics To the Field Of
Standardization, 9 pp.
RUSSIAN, per, Standarty i Kachestvo, No 1,
1966, pp. 42-45.
JPRS 35502

Soviet Deputy Minister of Defense A. I.
Berg on Cybernetics, by A. Berg, 7 pp.
RUSSIAN, per, Starshina Serzhant, No 2,
Feb 1966, pp. 32-34.
JPRS 35344

Contribution to the Knowledge on So-Called
Mucous Cysts, by L. Balus, et al, 8 pp.
RUSSIAN, per, Stomatologia, Vol XI, No 4,
1964, pp 315-323.
*Dept of Navy/NMC

The Problem of Malignant Degeneration of
the Epithelial Lining of Odontogenic
Cysts, by I. I. Ermolave, N. A. Plotnikov,
4 pp.
RUSSIAN, per, Stomatologia, Vol II,
1966, pp 49-52.
*Dept of Navy/NMC

Secret Phenomena of Human Psyche, by L. I.
Vasil'yev.
RUSSIAN, bk, Tainstvennyye Yavelniya Chelove-
cheskoy Psichiki, 1964, pp 1-184.
*FTD-HT-66-336

Toxicological Characteristics of Hydrazine, by
N. K. Kulagina.
RUSSIAN, per, Ak Med Nauk SSSR. Toksikologiya
Novykh Promishlennyykh Khimicheskikh Veshchestv,
No 4, 1962, pp 65-81.
*FTD-HT-66-306

Scientific
Biological & Medical Sciences (Contd)

Trematodes of Animals and Man,
by K. I. Skrjabin.
RUSSIAN, bk, Trematody Zhivotnykh i
Cheloveka, Vol XVIII, Moscow, 1960.
CFSTI TT 64-11055

Relative Susceptibility of Mollusks to Invasion
by the Larvae of Mullerius Capillaris, Cystocaulus
Nigrescens, and Synthetocaulus ssp, by E. Davtian.
RUSSIAN, per, Trudy Nauchnoissled Vet Inst.
Vol 2, No 5, 1947, pp 3-20.
HEW NIH 5-6-66

Bony Fishes of the Maikop Deposits of the
Caucasus, by P. G. Danil'chenko.
RUSSIAN, bk, Trudy Paleontologicheskogo
Instituta, Vol LXXVIII, 1960, 208 pp.
CFSTI TT 67-51201

The Odour of Ethyl Mercaptan as a
Warning Signal in Mines, by B. A. Surnachev.
RUSSIAN, per, Trudy VostNII, Vol 4, 1964,
pp 188-198.
NLL Ref: 8313.4 1965 (5101)

Soviet Fishery Investigations in the North-
western Part of the Pacific Ocean, Vol 1,
316 pp.
RUSSIAN, per, Trudy Vses Nauch Issled Inst
Morskogo Ryb Khoz i Okeanograf, Vol XLVIII,
1963.
CFSTI TT 67-51203

Soviet Fisheries Investigations in the
Northeastern Part of the Pacific Ocean,
Part 2, 282 pp.
RUSSIAN, per, Trudy Vses Nauch Issled Inst
Morskogo Ryb Khoz i Okeanograf, Vol LI, 1964.
CFSTI TT 67-51204

Soviet Fishery Investigations in the North-
eastern Part of the Part of the Pacific Ocean,
Part 3, 341 pp.
RUSSIAN, per, Trudy Vses Nauch Issled Inst
Morskogo Ryb Khoz i Okeanograf, Vol LVII, 1964.
CFSTI TT 67-51205

Soviet Fisheries Investigations in the
Northeastern Part of the Pacific Ocean,
Part IV, 345 pp.
RUSSIAN, per, Trudy Vses Nauch Issled Inst
Morskogo Ryb Khoz i Okeanograf, Vol LVIII,
1965.
CFSTI TT 67-51206

Scientific
Biological & Medical Sciences (Contd)

The Ultrastructure of Transplanted Mouse
C₃HA Hepatomas. I. Electron Microscopic
Studies of Hepatomas 22 and 46.
RUSSIAN, per, Tsitolog, Vol VII, No 3, 1965,
pp 372-377.
HEW NIH No 4-31-66

Tryptophan Pyrolase Activity in the Liver
and in some Transplantable Hepatomas of
C₃HA Mice, by V. M. Bresler.
RUSSIAN, per, Tsitolog, Vol VII, No 5, 1965,
pp 664-666.
HEW NIH No 4-32-66

Creativity and Cybernetics, by Yu. A. Filip'yev.
RUSSIAN, bk, Tvorchestvo I Kibernetika, Moskva,
1964, pp 1-79.
*FTD-MT-66-53

Literature Index of Aerospace Medicine and Bio-
astronautics, Published in USSR (1964-1965), by
L. I. Boreva, E.M. Zabodovskaya. 64 pp.
RUSSIAN, bk, Uказател' Literatury po Aviakosmi-
cheskoy Meditsine i Bioastronautike, Izdannoy V
SSSR, (1964-1965), Moskva - 1965. 68 pp.
9700462-V
FTD-TT-65-1661

Study in Labor Hygiene in Vibrocondensation
in Concrete, by Prof. A. S. Mel'kumova and
G. I. Rumyantsev, 13 pp.
RUSSIAN, bk, Vibratsionnaya Bolezn'
Betonshchikov i Mery Bor'by s Neju, 1965,
pp. 4-12 and 104.
JPRB 35407

Virus Hemorrhagic Fever,
by A. A. Smorodintsev, L. I. Kazbintsev,
210 pp.
RUSSIAN, bk, Virusnye Gamorragicheskie
Likhoradki, Leningrad, 1963.
OTS 64-11116

Studies in Mental Telepathy, by Leonid
Leonidovich Vasil'yev, 141 pp.
RUSSIAN, bk, Vnusheniye na rasstoyani,
1962, pp. 1-160.
JPRB 35467

Scientific
Biological & Medical Sciences (Contd)

Purification and Treatment of Water
in Nuclear Reactors, by
E. S. Chernorotov, N. V. Potekhni, et al,
9 pp.
RUSSIAN, rpt, Vodoochistka
i Vodopodgotovka Na Yadernykh
Reaktorakh, Atomic Energy Institute
Imeni I. V. Kurchatov, Report III/IAE 787,
1964, pp 1-14.
Dept of Navy Tr 4634/CNI Tr 2165

Resume of Symposium on Experimental Oncology,
5 pp.
RUSSIAN, bk, Voprosy Eksperimental'noy
Onkologii, 1965, pp. 3-5, 278-280.
JPRS 35716

Philosophical Problems of Molecular Biology,
by R. S. Karpinskaya, 14 pp.
RUSSIAN, per, Voprosy Filosofii, No 1, 1966,
pp. 65-74.
JPRS 35191

Some Methodological Problems of Game Theory,
by N. N. Vorob'yev, 14 pp.
RUSSIAN, per, Voprosy Filosofii, No 1, 1966,
pp. 93-103.
JPRS 35191

Conference on Philosophical Problems of Contemporary Biology, by V. P. Chekurin, 5 pp.
RUSSIAN, per, Voprosy Filosofii, No 1, 1966,
pp. 148-150.
JPRS 35191

Chemical Nature of the Antigens That Determine the Specificity of Human Cancers, by P. N. Kosikov, et al.
RUSSIAN, per, Voprosy Onkologii, Vol 11, No 10,
1965, pp 58-63.
HEW NIH 5-4-66

Resolution of Council of Scientific Medical Societies Presidium Concerning Report on 1958-1965 Activities of Board of All-Union Society of Oncologists, by M. Volkov, 7 pp.
RUSSIAN, per, Voprosy Onkologii, Vol XII, No 3, 1966, pp. 114-117.
JPRS 35637

Postvaccination and Postinfection immunity in Tick-Borne Encephalitis, by S. F. Semenov.
RUSSIAN, per, Voprosy Virusologii, No 5,
1964, pp 597-601.
NLL RTS 2909

Scientific
Biological & Medical Sciences (Contd)

Concerning Infection with virus SV40 of Monkeys in the Jungles of the North Vietnamese, B. A. Lapin, et al.
RUSSIAN, per, Vop Virus, Vol II, 1965,
pp 226-228.
HEW NIH No 5-42-66

Infectious Diseases and Their Prevention, by A. Smirnov, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, No 3, Mar 1966,
pp. 24-25.
JPRS 35229

Adult Psychology; Lecture Course, by Nikolay F. Dobrynin, et al.
RUSSIAN, bk, Vozrastnaya Psichologiya, 1965,
pp 1-295.
*FTD-HT-66-410

Protection against Radioactive Fallout, by R. V. Petrov, et al.
RUSSIAN, bk, Zashchita ot Radioaktivnykh
Ozadkov, Moscow, 1963, 189 pp.
*CFSTI
AEC-Tr-6634

Morphology of the L forms of -hemolytic Streptococci. I. Peculiarities of Morphogenesis of the L forms of -hemolytic Streptococci, by Ya. G. Kagan, et al.
RUSSIAN, per, Zhur Mikrobiol, Vol XLI, No 2,
1964, pp 122-128.
HEW NIH No 4-21-66

Morphology of the L forms of Beta-Hemolytic Streptococci. II. Peculiarities of the Growth and Multiplication of the L Forms of Beta-Hemolytic Streptococci, by G. Ya. Kagan, et al.
RUSSIAN, per, Zhur Mikrobiol, Vol XLI, No 3,
1964, pp 24-27.
HEW NIH No 4-28-66

Cytochemical Composition of Stable L-forms of Certain Pathogenic Species of Bacteria, by G. Ya. Kagan.
RUSSIAN, per, Zhur Mikrobiol, Vol XLI, No 5,
1964, pp 101-104.
HEW NIH No 4-36-66

Scientific
Biological & Medical Sciences (Contd)

Plastics and Synthetic Polymers in Medical Microbiology, by V. N. Tarasov, 9 pp.
RUSSIAN, per, Zhur Mikrobiologii, Epidemiologii i Immunobiologii, No 12, 1965, pp 121-126.
ACSI I-9317
ID 2204013266

Work of Society of Epidemiologists, Microbiologists and Infectious Diseases, Kuybyshev Department, 6 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 1, 1966, pp. 155-157.
JPRS 35925

Studies in Complex Immunization of Guinea Pigs against Plague, Smallpox, and Yellow Fever, by M. I. Lyubashevskiy and I. F. Taran, 6 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, Apr 1966, pp. 17-21.
JPRS 35934

Studies on B. Anthracis and B. Cereus Antigens by Means of Fluorescent-Serological and Cytochemical Techniques, by Ye. N. Levina and L. N. Kats, 7 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, Apr 1966, pp. 98-103.
JPRS 35933

Effect of Nicotinic Acid Experimental Psychosis Provoked by Lysergic Acid Diethylamide, by R. A. Ivanova.
RUSSIAN, per, Zh Nevropat Psich Korsakov, Vol LXIV, No 8, 1964, pp 1172-1176.
HEW NIH No 5-36-66

Calanoida of the Far Eastern Seas and the Polar of the USSR, by K. A. Bordaki.
RUSSIAN, bk, Zoologicheskii Institut, Opredeliteli po Faune SSSR, No 35, 442 pp.
CPSTI TT 67-51200

Dynamics of the Invasion Condition of Molluscs by the Larvae of Lung Nematodes and the Factors that Influence their Egress, by E. A. Davtian.
RUSSIAN, per, Zool Sbornik, No 7, 1950, pp 83-101.
HEW NIH No 4-39-66

Scientific
Biological & Medical Sciences (Contd)

New Findings and New Hosts of Acanthobdella Peledina Grube, by O. N. Bauer.
RUSSIAN, per, Zoologicheskii Zhurnal, Vol 21, No 6, 1942, pp 282-283.
NLL RIS 3150

New Species of Scinoid Lizards from the Islands of Lesser Sundas Archipelago, by I. S. Darevsky.
RUSSIAN, per, Zool Zhur, Vol XLIII, No 1, 1964, pp 80-88.
CPSTI TT 66-51162
Special Project

Geographical Variability of the Voice of Animals as an Ecological and Evolutionary Problem, by G. N. Simkin, V. D. Ilyichev.
RUSSIAN, per, Zool Zhur, 1965, Vol XLIV, No 4, pp 483-493.
CPSTI TT 66-51161
Special Project

Birds and the Problem of Natural Foci of Tick-Borne Encephalitis, by E. I. Korenberg, 28 pp.
RUSSIAN, per, Zoologicheskiy Zhurnal, Vol 45, No 2, 1966, pp. 245-260
JPRS 35215

Effect of Transfusion of the Protein Blood Substitute BK-8 on the Protein Composition of the Blood Serum in Old Animals, by I. M. Alekseyeva, 11 pp.
UKRAINIAN, per, Fiziologichniy Zhurnal, Vol 12, No 1, Jan-Feb 1966, pp. 56-62.
JPRS 35187

Ubiquinone Contents of Liver Homogenates and Mitochondria in White Rats in the Process of Developing A-avitaminosis, by G. V. Donchenko.
UKRAINIAN, per, Ukr Biokhim Zhur, Vol XXXVI, 1964, No 4, pp 483-491.
HEW NIH No 4-34-66

Fourth National Conference of the Scientific Societies of Pharmacists in Bulgaria, 6 pp.
BULGARIAN, per, Farmatsiya, No 1, 1966, pp. 1-4.
JPRS 35548

Regarding the Problem of Acute Toxicity by Scan, by G. Kotev, 6 pp.
BULGARIAN, per, Vsesoyuznoe Meditsinskoe Delo, Vol XX, No 2, 15 Apr 1965, pp. 37-42.
JPRS 35195

Scientific
Biological & Medical Sciences (Contd)

Smoking among Pregnant Burmese Women and its Influence on the Mother, Fetus and Newborn, by P. Robinson.
BURMESE, per, Harefush, Vol LXIX, No 2, 1965, pp. 37, 38.
HEW NIH No 4-14-66

Handling Animal Husbandry with a Revolutionary Spirit, by Fang T'i, 6 pp.
CHINESE, per, Jen-min Jih-pao, 14 Apr 1966, p. 2.
JPRS 35532

A Survey of Progress Made in Chemotherapeutic Drugs Used Against Viruses, by Wu Yuan-Liu, Wang Lin, 18 pp.
CHINESE, per, Yad-Hsuen Hsuen-Pao, (Acta Pharmaceutica Sinica, Vol XII, No 3, 1965, pp 209-224).
ACSI I-9764
ID 2204006266

Valuation and its Disturbances From the Standpoint of Psychiatry, by V. Vondracek. 236 pp.
CZECH, bk, Hodnoceni Ajeho Poruchy Zhlediska Psychiatrie, 1964, 190 pp. 9700611-V
*FTD-IT-65-532

Some Physical Problems in Physiological Optics, by O. Novakova.
CZECH, per, Jenna Mechanika a Optika, No 12, 1965, pp 369-372.
*FTD-HT-66-283

Q-Fever in Cotton Spinners, by H. Prix, et al, 16 pp.
CZECH, per, Prakticky Lekar, No 40, 1960, pp 1085-1088.
ACSI I-9328
ID 2204014366

A Nanosecond Pulse-Measuring Device, by Tomas Hornak.
CZECH, per, Slaboproudny Obzor, Vol 24, No 12, 1963, pp 697-705.
ABC SCL-t-65-283

The Influence of Body Constitution on the Absorption of Electromagnetic Waves by Jan Musil. 29 pp.
CZECH, per, Slaboproudny Obzor, No 7, 1965, pp 391-397.
ACSI I-8854B
ID 2204064665

Scientific
Biological & Medical Sciences (Contd)

Thomas Bartholin, by A. G. Sommer.
DANISH, rpt, In Indbydelseskript til Kjøbenhavns Universitets Aarsfest til Brindring om Kirkens Reformation, Copenhagen, 1858, pp 3-48.
HEW NIH No 5-29-66

Identification of the Baby's Preverbal Communication, by K. Michelson, et al.
DUTCH, per, Finsk Lakaresalisk Handl, Vol CIX, 1965, pp 43-47.
HEW NIH No 4-2-66

Relative Biological Effectiveness of Beta-Doses on the Skin Compared to Gamma-Doses on the Whole Body. In the Case of Contamination of the Terrain, on One Hand, and in the Case of Contamination of Clothing, on the Other.
FRENCH, rpt, Bull. ABC No 7. ABC Section 33/22. 9232750
AEC ORNL-tr-969

Studies on the Pathogenic Property of the Strictly Anaerobic Species of the Corynebacterium Genus, by A. R. Prevot, P. Tardieu, 11 pp.
FRENCH, per, Ann Inst Pasteur Vol LXXXIV, 1952, pp 879-889.
*Dept of Navy/NMC

Causes of Blindness in 1958 at the National Institution for Young Blind Persons of Paris, by P. Bailliart.
FRENCH, per, Ann D'Oculist, Vol 192, No 5, 1959, pp 362-366.
HEW NIH 5-10-66

Concerning the Excessive use of Ataraxics and Tranquillizers in Extra-Psychiatric Therapy, by La Barre, J.
FRENCH, per, Ann Soc Roy Sci Med Nature Brux, Vol XVI, No 1, 1963, pp 5-36.
HEW NIH No 5-44-66.

A Problem in Occupational Dermatology, by A. Delmotte, 5 pp.
FRENCH, per, Arch Belg Med Soc, Vol XXIII, 1965, pp 163-167.
*Dept of Navy/NMC

Changes in the Electrocardiogram Following Physical Exertion, by Pierre W. Duchosal 16 pp.
FRENCH, per, Archives d. Coeur, 30th year No 8, pp 569-584.
Dept of Navy Tr 4717/NMC No 1076

Scientific
Biological & Medical Sciences (Contd)

The Toxoplasma, the Mother and the Child,
by G. Desmonts, et al.
FRENCH, per, Arch Franc Pediat, Vol XXII, No 10,
1965, pp 1183-1200.
HEW NIH No 4-37-66

Morphological and Histological Research on
Rushton's Intracystic Hyalin Bodies,
by M. Bouyssou, et al.
FRENCH, per, Bull Group Int Rech Sci Stomat,
Vol VIII, No 2, 1965, pp 81-104.
HEW NIH No 5-27-66

X-Ray Diffraction Study of the Mineral Substance
of the Bone and Tooth Enamel Fluorinated in
Vivo, by C. A. Baud, et al.
FRENCH, rpt, its Composition, Properties and
Fundamental Structure, Bristol, England, 1965,
pp 32-35.
HEW NIH No 4-4-66

Influence of Carbon Containing Food on the Sporulation
Mutants of Bacillus Megaterium, by
J. Aubert, et al.
FRENCH, per, Comptes Rendus Acad Sci, Vol 253,
No 17, 1961, pp 1880-1882.
HEW NIH No 5-5-66

Primary Cultures of Embryonic Drosophila Melanogaster Cells, by Guy Echalier, et al.
FRENCH, per, Comptes Rendus, Vol 261, No 12, 1965,
pp 3211-3213.
*ABC ORNL-tr-1253

Study of the Production of Rous Virus in
Culture by Contact between the Cells of Rat
XC Sarcoma and Chick Embryo Cells,
by P. Vigier, et al.
FRENCH, per, Comptes Rendus Acad Sci, 1965,
pp 4278-4281.
HEW NIH No 4-8-66

Isolation of a Ribonucleic Acid with a High
Molecular Weight from Two Different Strains of
Rous Virus, by L. Harel, et al.
FRENCH, per, Comptes Rendus Acad Sci, Vol CCLXVI,
1965, pp 4559-4562.
HEW NIH No 4-6-66

Psychodysleptica: Mind-poisoning Drugs,
by J. Thauillier.
FRENCH, per, Concours Med, Vol LXXXVI, No 12,
1964, pp 7433-7445.
HEW NIH No 5-32-66

Scientific
Biological & Medical Sciences (Contd)

Histochemistry of the Gastric Mucosa, by
A. Gerard.
FRENCH, rpt, In 7e Congres International de l'Association
des Societes Nationales Europeennes et
Mediterraneennes de Gastro-Enterologie. v. 2,
Symposium II, 1964, pp 113-125.
HEW NIH 5-12-66

Correlation Between Cardiac Metabolism and
the Electrocardiogram, by G. Tumietto
15 pp.
FRENCH, rpt, Contribution a l'etude des
Correlations Existant Entre le Metabolisme
Cardiaque et l'Electrocardiogramme,
pp 481-495.
Dept of Navy Tr 4715/NMC No 1074

Filtration and Filters,
FRENCH, rpt, Filtration Commission of the
A. N. R. T. 9232400
ABC ORNL-tr-570

Blindness in Children. Belgian Statistics
and Prophylaxis, by Leplat.
FRENCH, per, J Ophtal Soc, Vol XII, 1951,
pp 10-12.
HEW NIH No 5-46-66

Reflections on the Fight against Blindness
in Children, by H. Ehlers.
FRENCH, per, J Ophtal Soc, 1951, Vol XII,
pp 12-15.
HEW NIH No 5-41-66

Some Statistical Notes on the Blindness of Children
in France, by P. Bailliart.
FRENCH, per, J Ophtal Soc, No 12, 1951,
pp 24-28.
HEW NIH No 5-21-66

On the Causes of Blindness in Children,
by A. Franceschetti, et al.
FRENCH, per, J Ophtal Soc, Vol XII, 1951,
pp 37-41.
HEW NIH No 5-40-66

Blindness in Syria (Statistics on a Series
of 252 Subjects), by R. Jebejian.
FRENCH, per, J Ophtal Soc, Vol XIX, 1957,
pp 11-16.
HEW NIH No 5-39-66

Scientific
Biological & Medical Sciences (Contd)

Proposal for the Construction of a Sewer for the Discharge of Industrial Waste Water Containing Radioactive Substances into the Escaut River.
FRENCH, rpt, Kingdom of Belgium Ministry of Public and Family Health Public Health Administration, Brussels, August, 1964. 9232755
AEC ORNL-tr-965

Electrocardiographical Changes Following Glucose Administration, by G. Sotgiu, G. Tumiotto, 10 pp.
FRENCH, rpt, Les Modifications Electrocardiographiques Apres Administration de Glucose, pp 283-293.
Dept of Navy Tr 4714/NMC No 1073

The Biology of Choerostrongylus (Metastrongylus) Pudendotectus (brevivaginatus) from the Lungs of Pigs, together with a Preliminary Report on the Development of the Synthetocaulus Group in our Domestic Animals, by A. Hobmaier, et al. FRENCH, per, Munchen Tierarztl Wschr, Vol LXXX, No 31, 1929, pp 433-436.
HEW NIH No 4-19-66

The Effect of the Clinostat on the Synthesis of Tryptophan in Helianthus Annuus, by Metin Bara. FRENCH, per, Physiologia Plantarum, Vol 18, 1965, pp 1037-1043. 9232781
AEC ANL-tr-291

The Parma Experimental Laboratory, by R. Cultrera.
FRENCH, per, Revue de la Conserve, Vol XX, No 9, 1965, Dec pp 291-294.
*ACSI J-0120
ID 2204031266

Electronic Structure of Psychopharmacologic Agents. I. Metabolism of Tryptophane, by J. I. Fernandez-Alonso.
FRENCH, per, Rev Esp Fisiol, Vol XXI, No 3, 1965, pp 85-90.
HEW NIH No 4-18-66

Remissions in Acute Leukemia. On the Role and Mode of Action of Blood Transfusions, by B. Dreyfus.
FRENCH, per, Rev Hemat, Vol III, No 1, 1949, pp 29-47.
HEW NIH No 5-43-66

Scientific
Biological & Medical Sciences (Contd)

Epidemiological Study on Toxoplasmosis. The Effect of the Cooking of Meats From the Butcher shop on the Frequency of Human Infection, by FRENCH, per, Rev Franc Etud Clin Biol, Vol 10, No 9, 1965, pp 952-958.
HEW NIH 5-8-66

Chromogenic Property of Malleomyces Pseudomallei, by E. R. Brygoo, C. Richard, 4 pp.
FRENCH, per, Soc Fr de Microbiol Inst Pasteur, pp 822-825.
*Dept of Navy/NMC

Treatment of Accidental Internal Contamination, by J. Lafuma.
FRENCH, rpt, Symposium on Accidental Irradiation at Place of Work, Nice, 26-29 April, 1966.
*AEC 2383

Treatment of Radiation-induced Skin Lesions, by S. Simon.
FRENCH, rpt, Symposium on Accidental Irradiation at Place of Work, Nice, 26-29 April, 1966
*AEC 2384

Diethylamide Test of Lysergic Acid (LSD 25) and Psychotropic Treatment: Clinical and Psychological Study, by P. Borenstein, et al. GERMAN, per, Ann Medicopsychol, Vol II, No 2, 1965, pp 223-236.
HEW NIH No 4-22-66

Test with Lysergic Acid Diethylamide (LSD 25) and Psychotropic Drugs: Electroencephalographic Study, by P. Borenstein.
GERMAN, per, Ann Medicopsychol, Vol II, No 2, 1965, pp 237-245.
HEW NIH No 4-17-66

The Glycogen in Pelomyxa Palustris Greeff With Contributions to the Knowledge of the Animal, by Michael Leiner.
GERMAN, per, Archiv fur Protistenkunde, Vol 47, No 2, 1924, pp 253-307. 9232770-V
AEC ANL-tr-289

Venous Anesthesia, by August Bier, 12 pp.
GERMAN, per, Berlin Klin Wschr, Vol XLVI, 1909, pp 477-489.
Dept of Navy Tr 4710/NMC No 1069

Scientific
Biological & Medical Sciences (Contd)

The Method of Extreme Hyperthermia, especially in the Multistep Cancer Chemotherapy, by M. Von Ardenne, et al. GERMAN, per, Dtsch Gesundh, 20:43, 1965, pp 513-524. HEW NIH No 5-23-66

On Methods of the Extreme Hyperthermia, Especially in the Multistage Cancer Chemotherapy, by M. Von Ardenne, et al. GERMAN, per, Dtsch Gesundheitswesen, Vol 20, No 44, 1965, pp 1980-1988. HEW NIH 5-13-66

Cingulotomy, an Operation on the Central Nervous System for Influencing Gastro-Intestinal Bleeding, by A. Levy. GERMAN, per, Helv Chir Acta, Vol XXXII, No 1, 2, 1965, pp 144-152. HEW NIH No 4-12-66

N-Metabolism in the Erythrocyte Maturation, the N Balance under Endogenous Conditions, by H. G. Sweiger, et al. GERMAN, per, Hoppe Seyler Z Physiol Chem, Vol CCCXIII, 1958, pp 97-108. HEW NIH No 4-9-66

Studies of the Metabolism of Phytol, Dihydrophytol and Phytic Acid, by E. Klenk, et al. GERMAN, per, Hoppe Seyler Z Physiol Chem, Vol CCCXLIII, 1965, pp 39-51. HEW NIH No 5-48-66

Energy Balances of Persons Without Physical Activity and Concentrated Rations, by Von W. Wirths. GERMAN, per, Int. Z. Angew Physiol Binschi Arbeitsphysiol, Vol XXI, 1965, pp 230-246.
*ACSI J-0106
ID 2834008866

Causes of Blindness in Children. International Inquiry. Blindness of Children in Germany, by Messely. GERMAN, per, J. Ophtal Soc, Vol 12, No 5, 1951, pp 4-6. HEW NIH 5-17-66

Linax and Succinea, two New Intermediate Hosts of Mullerius (Synthetocaulus) Capillaris of Sheep and Goats, by A. Hobmaier. GERMAN, per, Munchen Med Wschr, Vol LXXXI, No 23, 1930, pp 285-287. HEW NIH No 4-35-66

Scientific
Biological & Medical Sciences (Contd)

The Clinical Value of Fibrinolysis Determination. Report III. Determination of Fibrinolysis in Cases of Tumor, Leukemia and Reticulosis, by F. H. Schulz. GERMAN, per, Munchen Med Wschr, Vol XCVI, No 52, 1954, pp 1534-1536. HEW NIH No 4-15-66

Contribution to the Medicinal Treatment of Juvenile Forms of Imbecility and Mental Retardation with Addivit, by W. Zeise. GERMAN, per, Munchen Med Wschr, Vol XCVIII, No 37, pp 1956, pp 1247-1250. HEW NIH No 4-27-66

The Development of Lungworms of the Synthetocaulus Genus, by A. Hobmaier. GERMAN, per, Munchen Tierarztl Wschr, Vol LXXX, No 28, 1929, p 393. HEW NIH No 4-11-66

The Development of the Lungworm Synthetocaulus Capillaris in Slugs, Wood Snails and Land Snails, by A. Hobmaier, et al. GERMAN, per, Munchen Tierarztl Wschr, Vol LXXX, No 36, 1929, pp 497-500. HEW NIH No 4-26-66

Silicon Ointments, by G. Wagner, 4 pp. GERMAN, per, Pharmazie, Vol XIV, 1959, pp 173-176
*Dept of Navy/NMC

Observations and Experience on Nutria Diseases Gathered Over the Period of Three Years, by H. Grieder. GERMAN, per, Schweizer Archiv Fur Tierheilkunde, Vol 77, 1935, pp 255-265.
*AEC
EDC 1 Sep 66

Trichinosis in Myocastor Coypus Mol, by H. Rubli. GERMAN, per, Schweizer Archiv Fur Tierheilkunde, Vol 78, 1936, pp 420-423.
*AEC
EDC 1 Sep 66

Strongylosis in Two Nutria Farms. Control Measures With Allisatin, Allium Sativum and Hygienic Measures, by H. Grieder. GERMAN, per, Schweizer Archiv fur Tierheilkunde, Vol 79, 1937, pp 475-480.
*ABC
EDC 1 Sep 66

Scientific
Biological & Medical Sciences (Contd)

Rare Nutria Parasites, by H. Grieder.
GERMAN, per, Schweizer Archiv fur Tierheilkunde, Vol 79, 1937, pp 520-525.
*AEC
EDC 1 Sep 66

Diseases of the Urogenital Apparatus in our
Pur-bearing Mammals, by H. Grieder.
GERMAN, per, Schweizer Archiv fur Tierheilkunde, Vol 79, 1937, pp 563-570.
*AEC
EDC 1 Sep 1966

Gastroenteritides and Intestinal Dislocations in
Pur-bearing Mammals During Captivity, by
H. Grieder.
GERMAN, per, Schweizer Archiv fur Tierheilkunde, Vol 79, 1937, pp 570-574.
*AEC
EDC 1 Sep 66

Filaridae, Filariosis and Microfilariosis in
Different Mammals, by H. Grieder.
GERMAN, per, Schweizer Archiv fur Tierheilkunde, Vol 80, 1938, pp 485-490.
*AEC
EDC 1 Sep 66

Intoxications with Tablets in Goteborg in
1962, by I. Afzelius-Frisk, et al.
GERMAN, bk, Svensk Lakartidn, Vol LX, 1963,
pp 3325-3335.
HEW NIH No 4-13-66

Hormonal Activity of Human Placenta
Explant, by W. Neuweiller, U. Hermann. 4 pp.
GERMAN, rpt, Ueber die Hormonale Taeigkeit
der Explantierten Menschlichen Placenta,
pp 219-222.
*Dept of Navy/NMC

Tablets Instead of Supper, 6 pp.
GERMAN, per, Urinia, No. II, 1965,
pp 883-887.
AESI I-9330
ID 22040:4566

Accumulation of Paratyphoid Fever Cases in
Nutria (Mycocastor Coypus), by F. Gmeiner.
GERMAN, per, Wiener Tierarztliche Monatsschrift, Vol 18, 1931, pp 140-143.
*AEC
EDC 1 Sep 66

Scientific
Biological & Medical Sciences (Contd)

The Importance of Thiamin (vitamin B₁) for the
Assimilation of Creatinine by Cryptococcus Neo-
formans, by F. Staib.
GERMAN, per, Zbl Bakt I Orig, No 190, 1963,
pp 115-131.
HEW NIH 5-19-66

Investigations on the Phototropism of the Oat
Coleoptile, by Hans-Joachim Reisener. 29 pp.
GERMAN, per, Z fuer Botanik, Vol 46, 1958,
pp 474-505.
AEC ANL-tr-193

A Case of Acute Psychosis in Chronic Trional-
Veronal Intoxication, by L. Von Muralt.
GERMAN, Z. Ges Neurol Psychiat, Vol 22, 1914,
pp 122-132.
HEW NIH 5-14-66

The Reciprocal heterotypic Hemagglutination
Inhibition Reaction with Adenoviruses of
Types 8, 9, 10, by A. Lengyel.
GERMAN, per, Z Immun Allergieforsch, Vol CXXIX,
1965, pp 34-41.
HEW NIH No 5-49-66

I. Communication. Specificity Studies in
Antigen Serums and Bogomoletz Serum,
by H. Seifert.
GERMAN, per, Z Immunitaetsforsch, Vol CXVI,
1958, pp 413-436.
HEW NIH No 5-SO-66

Congenital Defects of the Septum Ventriculorum
Cardis, by V. Bisenmenger.
GERMAN, per, Z. Klin Med, No 32:Suppl, 1897,
pp 1-28.
HEW NIH 5-15-66

Biosynthesis of 2, 3-Dihydroxybenzoic Acid
in Submerged Cultures of Claviceps Paspali
Stevens et al., by D. Groger, et al.
GERMAN, per, Z Naturforsch [B], Vol XX, 1965,
pp 856-858.
HEW NIH No 5-47-66

Studies on the Myeloblastoma Virus (BAI Strain
A) of Chickens. I. Demonstration of the Virus
and its Replication Kinetics in Chicken Fibro-
blast Cultures, by H. Bauer, et al.
GERMAN, per, Z Naturforsch [B], Vol 20, No 10,
1965, pp 960-965.
HEW NIH 5-11-66

**Scientific
Biological & Medical Sciences (Contd)**

On the Development of the Lungworm of the Cat, *Aelurostrongylus Abstrusus*, by M. Hobmaier, et al. GERMAN, per, *Z Parasitenk*, Vol VII, 1935, pp 717, 718. HEW NIH No 4-30-66

Biological Problems in Space Travel, by Sandor Lukacs. HUNGARIAN, bk, *Az Urrepules es a Tudomany*, 1962, pp 103-150. *FTD-HT-66-408

Studies on the Influence of *Salmonella Typhi* Endotoxin on the Number of leukocytes, by P. Kertai. HUNGARIAN, per, *Kiserletes Orvostudomany*, 1965. HEW NIH No 5-38-66

Development of the Chair of Physiology over the Past 20 Years, by Dr. Prof. Armand Kemeny, 10 pp. HUNGARIAN, per, *Magyar Allatorvosok Lapja*, No 2, 1966, pp. 49-52. JPRS 35758

Summary Report on Hungarian Medicine (1945-1965) by Antal Babics, 37 pp. HUNGARIAN, per, *A Magyar Tudomanyos Akademia Orvosi Tudomanyok Osztalyanak Kozlemenyei*, Vol XVI, No 1, 1965, pp. 3-36. JPRS 35700

The Research Institute of Experimental Medicine of the Hungarian Academy of Sciences, by Istvan Rusznyak, 6 pp. HUNGARIAN, per, *Magyar Tudomanyos Akademia Orvosi Tudomanyok Osztalyanak Kozlemenyei*, Vol XVI, No 1, 1965, pp. 37-44. JPRS 35702

A Few Words on Scientific Qualifications on the Basis of the One-Year Experience of the Medical Professional Committees, by Jozsef Sos, 6 pp. HUNGARIAN, per, *A Magyar Tudomanyos Akademia Orvosi Tudomanyok Osztalyanak Kozlemenyei*, Vol XVI, No 1-2, 1965, pp. 143-148. JPRS 35193

**Scientific
Biological & Medical Sciences (Contd)**

Post-Synaptic Processes of Excitation and Inhibition in the Neuronic Soma of the Sea Slug (*Aplysia*) and Snail, by L. Tauc. ITALIAN, per, *Arch Ital Biol*, Vol XCVIII, 1958, pp 78-110. HEW NIH No 4-5-66

A Rare Association of Coats Retinitis and Retinitis Pigmentosa, by G. Zamorani. ITALIAN, per, *G. Ital Oftal*, No 9, 1956, pp 429-443. HEW NIH 5-2-66

Effect of Some Natural and Synthetic Isoprenoids on Lipid Metabolism, by F. Piccinini. ITALIAN, per, *Arch Ital Sci Farmacol*, Vol XII, 1962, pp 111-117. HEW NIH No 5-37-66

Causes of Juvenile Blindness in Italy: Statistics and General Discussion, by L. Maggiore. ITALIAN, per, *J Ophtal Soc*, No 12, 1951, pp 29-35. HEW NIH 5-20-66

Tubal Sterilization in the Past and in the Present, by B. Ferrari, et al. ITALIAN, per, *Minerva Ginec*, No 16, 1964, pp 592-594. HEW NIH 5-9-66

Transformation of Carcinomas into Carcinosarcomas After Radium Therapy, by C. Sirtori, et al. ITALIAN, per, *Tumori*, Vol 51, No 2, 1965, pp 89-95. HEW NIH 5-16-66

Evaluation of Radioactive Aerosols, by Takeichiro Inomye. 5 p. JAPANESE, per, *Air Cleaning*, Vol 3, No 4, 1965, pp 26-31. *AEC

Studies of Plastics for Medical Uses. Plastic Syringes, by M. Fujii. JAPANESE, per, *Eisei Shikenjo Hokoku*, Vol LXXXI, 1963, pp 83-85. HEW NIH No 3-1-66

On the Nymph and Larva of the Formosan Large Tick, by M. Sugimori. JAPANESE, per, *J Jap Soc Vet Sci*, Vol XVI, No 1, 1937, pp 11-16. HEW NIH No 4-1-66

Scientific
Biological & Medical Sciences (Contd)

Design of a Non-Dispersive Ultraviolet Gas Analyzer and Its Application to Quantitative Measurement of Traces of Toxic Gases and Vapors in Air, by H. Konosu, Y. Mashiko, 14 pp. JAPANESE, per, Kogyo Kagaku Zasshi, Vol LXVIII, 1965, pp 1868-1872.
Dept of Navy Tr 4584/ONI Tr 2127

Study of Atropine Metabolism, (1) Pharmacological Conspectus of Atropanal, by H. Miyazawa. JAPANESE, per, Nihon Yakurigaku Zasshi, Vol 52, No 3, 1956, pp 355-369.
NLL Ref: 3544 1965 (T 89 J)

Measurements of Axial Length of the Eye by Means of Ultrasonic Waves, by K. Kanki. JAPANESE, per, Nippon Ganka Gakkai Z, Vol LXV, 1961, pp 1877-1883.
HEW NIH No S-33-66

Changes in the Intracellular Serotonin and Catechola-mine Contents in Febrile Rabbits. I. The Effect of a Pyrogenic Substance (Pyrexal) on the Amine Content of the Brain Stem and on the Rectal Temperature, by Y. Kuruma, et al. JAPANESE, per, Nippon Yakurigaku Z, Vol LX, 1964, pp 463-568.
HEW NIH No 4-29-66

The Effect of Fatigue on Blood Sugar Rate, by Christian Bruusgaard, 15 pp. NORWEGIAN, rpt, Bloodsukkerets Forhold ved Leggensemstringelser, pp 778-792.
Dept of Navy Tr 4716/NMC No 1075

Eldon Cards, by K. Eldon. NORWEGIAN, per, T Norsk Laegeforen, Vol LXXXV, No 2, 1965, pp 557, 578.
HEW NIH No 3-10-66

Our Bats and their Protection, by Kazimierz Kowalski, 111 pp. POLISH, bk, Polska Akademia Nauk, Zakad Ochrony Przyrody, No 11, 1955, pp 1-110.
CPSTI TT 66-57044

Intoxication by Organic Phosphorous Compounds, by A. Schaechter and M. Garda, 13 pp. RUMANIAN, per, Medicina interna, Vol 18, No 3, Mar 1966, pp. 283-291.
JPRS 35718

Scientific
Biological & Medical Sciences (Contd)

Report on the 1966 Session of the Directing Council of the Union of Societies for Medical Sciences, 14 pp. RUMANIAN, np, Muncitorul Sanitar, 13 Apr 1966, p. 2.
JPRS 35639

Review of 15 Years Activity in Fields of Hygiene and Epidemiology, 6 pp. RUMANIAN, per, Muncitorul Sanitar, Vol 17, No 16(828), 20 Apr 1966, pp. 1, 3.
JPRS 35605

Electrocardiogram, before and After Physical Exertion, in Fasting State, by B. Moia, et al, 15 pp. SPANISH, rpt, El Electrocardiograma antes y Despues del Esfuerzo Previa Ingestion de Alimentos, pp 339-353.
Dept of Navy Tr 4718/NMC no 1077

Papers Read by Foreigners at Havana Medical-Stomatological Congress, 5 pp. SPANISH, np, El Mundo, 22 Feb 1966, pp. 1 & 9.
JPRS 35837

Causes of Blindness of Children in Spain, by Marin-Amat. SPANISH, per, J. Ophtal Soc, No 12, 1951, pp 16-21.
HEW NIH S-7-66

"African Lymphoma" in Brazilian Children, by A. Luisi, et al. SPANISH, per, Rev Brasil Cir (Bol Oncol), Vol XLIX, No 5, 1965, pp 280-295.
HEW NIH No 4-16-66

Revista Cubana De Cirugia (Cuban Journal of Surgery, 7 pp. SPANISH, per, Revista Cubana De Cirugia, Vol 4, No 4, 31 Aug 1965.
JPRS 35631

Bibliographical Data from Cuban Pediatrics Review, 5 pp. SPANISH, per, Revista Cubana de Pediatría, Vol XXXVII, No 4, 31 Aug 1965, pp. 385, 399, 400, 420, 421, 429, 431, 448-449, 451, 465-466, 468, 476, 479, 491, 503, 511.
JPRS 35837

Scientific
Biological & Medical Sciences (Contd)

Concerning the Problem of the Bacterial Etiology of Gastroenteritis among Children in the Matanzas District, by A. Efremova and F. Baez, 12 pp.
SPANISH, per, Revista Cubana de Pediatría, Vol XXXVII, No 4, 31 Aug 1965, pp. 493-502.
JPRS 35837.

Medical Developments, 8 pp.
SPANISH, per, Revista Cubana de Pediatría, Sept-Dec 1965, pp. 513, 524, 526, 529, 531, 540, 542, 560-561, 562, 566-567, 568, 577-578, 580, 587, 588, 592, 596, 603.
JPRS 35805

Seminar on Mission of General Public Health Services in the Eradication of Malaria, 47 pp.
SPANISH, rpt, Seminario Sobre La "Mission De Los Servicios Generales De Salud En Erradicación De La Malaria", Mar 1965, pp. 1-46
JPRS 35483

Iodization of Salt for the Prevention of Endemic Goiter, by L. Vallejo Cevallos, 17 pp.
SPANISH, rpt, Yodización de sal Para la Prevención del Bocio Endémico, Quito, Instituto Nacional de Nutrición, 1965.
HEW NIH 5-1-66

Silicon in Dermatology and Cosmetics, by M. T. Aliushin, 4 pp.
SWEDISH, per, Derm Vener, Vol XXXVIII, 1964, pp 36-39.
*Dept of Navy/NMC

Causes of Blindness among the Students of the Swedish Institute for Juvenile Blindness in Stockholm, by Nordenson.
SWEDISH, per, J Ophtal Soc, 12:36, 1951.
NIH HEW No 5-22-66

Study on Blindness in the South Tunisian, by F. Malouf
SWEDISH, per, J Ophtal Soc, Vol XVII, 1956, pp 9-10.
HEW NIH No 5-23-66

Statistics on Glaucoma, by J. C. Holst,
SWEDISH, per, Nord Med, Vol XXXIV, No 15, 1947, pp 847-850.
HEW NIH No 4-3-66

Scientific
Biological & Medical Sciences (Contd)

Tumor Cells in the Blood, by H. C. Engell.
SWEDISH, per, Nord Med, 69:24, 1963, pp 694-697.
HEW NIH No 5-26-66

The XXXY Sex-Chromosome Aberration, by K. Kaijser.
SWEDISH, per, Nord-Med, Vol LXXI, No 4, 1964, pp 105-108.
HEW NIH No 4-10-65

The Possible Teratogenic Effect of Certain Drugs used Therapeutically for Pregnant Women, by A. L. Villumsen.
SWEDISH, per, Ugeskr Laeg, Vol CXXVI, No 8, 1964, p 248.
HEW NIH No 4-33-66

The Causes of Blindness Among Children in Turkey, by N. Bengisu.
TURKISH, per, J. Ophtal Soc, Vol 12, 1951, pp 42-43.
HEW NIH 5-18-66

Chemistry

Analysis of Electrolytes and Solutions, by L. I. Nikandrova.
RUSSIAN, bk, 1963.
NLL R. 27545

Electrochemistry of Fused Salts, by L. N. Antikin, S. F. Vazhenin.
RUSSIAN, bk, 1964.
NLL R. 31404

Electrochemistry of Germanium and Silicon, by E. A. Efinov, I. G. Hrusalimchik.
RUSSIAN, bk, 1963.
NLL R. 28800

Electrochemistry of Solutions, by N. A. Ismailov.
RUSSIAN, bk, 1959.
NLL R. 17072

The Electron in Chemistry: Selected Works, by L. V. Pisarshevskii.
RUSSIAN, bk 1956.
NLL R. 17204

Scientific
Chemistry (Contd)

Electrotechnique, by M. Yu. Anveit.
RUSSIAN, bk, 1960.
NLL R. 26056

Electro-Thermal Installations with Raised-Frequency Ionic Conversion, by A. V. Donskoi, G. V. Ivenskii.
RUSSIAN, bk, 1964.
NLL R. 34001

Methods of Galvanic Bath Analysis, by O. G. Zhendareva, Z. S. Mukhina.
RUSSIAN, bk, 1963.
NLL R. 29927

Polyesters, by V. V. Korshak, S. V. Vinogradova.
RUSSIAN, bk, 1965.
Pergamon Press

Works on Electrochemistry, by B. S. Yakobi.
RUSSIAN, bk,
NLL R. 14119

AFA Analytical Aerosol Filters, by P. I. Basmanov and V. A. Poplavskaya, 18 pp.
RUSSIAN, bklet, Analiticheskiye Aerazol'-nyye Fil'try AFA, 1964, pp. 3-20.
JEPH 35679

Automatic Analysers for Radio-Chemical Media, by B. V. Shelemin.
RUSSIAN, bk, Avtomatischekie Analizatory Sostava Radio-Khimicheskikh Sred, 1965, 294 pp.
NLL R. 39039

Automated Chemical Analysis of Solutions, by M. A. Veksler, S. S. Denisov.
RUSSIAN, bk, Avtomatizatsiya Khimicheskikh Analizov Rastvorov, 1965, 248 pp.
NLL R. 39119

Electronographic Investigation of the Nature of Crystal Orientation and Formation of Phases in $SbSb_2Te_4$ and $PbBi_4Te_7$ Compounds, by A.G. Talybov, 14 pp.
RUSSIAN, per, Azerbaydzhanskiykhimicheskiy Zhurnal, Vol 30, No 6, 1963, pp 111-118. 9700763
PTD-TT-65-1399

Scientific
Chemistry (Contd)

Species Specificity of Soluble Ribonucleic Acids and Aminoacyl-Ribonucleid Acid Synthesis, by G. N. Zaitseva, 8 pp.
RUSSIAN, per, Biokhimia, Vol XXIX, 1964, pp 1150-1157.

*Dept of Navy/NMC

The Synthesis of Higher Fatty Acids and Alcohols by the Continuous Liquid Phase Oxidation of Short Chain Normal Paraffins, by V. K. Tsvyakovskiy.
RUSSIAN, per, Doklady Ak Nauk SSSR, Vol 161, No 5, pp 1118-.
NLL Ref: 5828.4 1965 (11152)

Circular Dichroism and Sequence of Nucleotides in Nucleic Acids, by G. B. Zavil'gel'skiy, et al.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLXVI, No 4, 1966, pp 978-981.
NASA TT F-10,049

The Hydrolysis of Dichlorotriazine Dyes, by A. Ya. Kalontarov, A. A. Kharkharov.
RUSSIAN, per, Doklady Ak Nauk Tadzhikskoi SSSR, Vol 5, No 6, 1962, pp 18-19.
NLL RTS 2901

Measurement of the Density of Nitrogen and Hydrogen at Low Temperatures and High Pressures by the Method of Hydrostatic Weighing, by I.F. Golubev, O.A. Dobrovolskiy.
RUSSIAN, per, Gazovaya Promishlennost', No 5, 1964, pp 43-47. 9232601
AEC NP-Tr-1365

Anticholinesterase Properties of Some O-Ethyl S-Alkyl Methylthiophosphonates. 2. Kinetics of Inhibition of Cholinesterase and Acetylcholinesterase by O-Ethyl S-n-Alkyl Methylthiophosphonates, by Ye. V. Rozengart, Ye. I. Godyna, et al. 11 pp.
RUSSIAN, per, Investiya Akad Nauk SSSR, Seriya Khimicheskaya, No 8, 1965, pp 1370-1375.
9700445
PTD-MT-66-194

Nitrates of the Ce-groups of Rare Earth Metals. Communication - Optical Properties of 6 and 4 Hydrated Nitrates, by K. E. Mironov, et al.
RUSSIAN, per, Investiya Sibirskogo Otdeleniya Akademii Nauk SSSR, Ser. Khim Nauk, Vol 7, No 2, 1964, pp 45-57.

*ABC

EDC 1 Sep 1966

Scientific Chemistry (Contd)

The Information of F-centres in Solid Solutions of KCl-KBr, by I. Ya. Melik-Gaikazian, D. I. Vaisburd.
RUSSIAN, per, Izv. VUZ Fizika, No 6, 1962,
pp 174-176.
NLL Ref: 7773.75 1965 (T-R-452)

The Effect of Some Additives on the Thermal Decomposition of Ammonium Perchlorate, by A. A. Shidlovskiy, L. F. Shmagin, et al.
RUSSIAN, per, Izv VUZ Khim i Khim Tekh, Vol VIII, No 4, 1965, pp 533-538.
*Dept of Navy/API/JHU/J-777

Dissociation of Niobium Pentachloride on Niobium and Carbide Surfaces, by V.P. Eliutin, G. I. Pepekin, et al.
RUSSIAN, per, Izvestiya Vyssh. Ucheb. Zaved. Tsvetn. Met., Vol 8, No 4, 1965, pp 90-96.
9232771
AEC LA-tr-66-15

The Intersolubility of Sugars, by A. V. Zubchenko.
RUSSIAN, per, Khleb. i Kondit. Prom, Vol 8, No 2, 1964, pp 36-38.
NLL Ref: 5828.4 1965 (5791)

The Interaction of Neutral Aerosol Particles in a Uniform Electrical Field, by V. I. Nikitenko.
RUSSIAN, per, Kolloidnyy-zhurnal, Vol 27, No 5, 1965, pp 731-734.
*FTD-HT-66-301

The Preparation of Reproducible Monodisperse Aerosols With a Mean Particle Radius from 30 to 300 Å, by A. G. Sutugin.
RUSSIAN, per, Kolloidnyy-Zhurnal, Vol 27, No 5, 1965, pp 785-786.
*FTD-HT-66-301

Potentiometric Express Method of Determining the Fatty Acid Composition of Oils, by L. S. Golodova, D. V. Sokol'ski.
RUSSIAN, per, Maslob. Zhirov Prom, Vol 31, No 8, 1965, pp 10-13.
NLL Ref: 5828.4 1965 (5792)

Some Relationships in the Polarographic Investigation of Molten Chlorides With the Platinum Electrode, by V. V. Kusmovich.
RUSSIAN, rpt, Physical and Electrochemistry of Molten Salts; Inst. of General and Inorganic Chemistry, Ukrainian Acad of Sci, 1965,
pp 124-148. 9232718
AEC ORNL-tr-1197

Scientific Chemistry (Contd)

The Content of Microelements, Cu, Zn, Co and Mn in Certain Soils of the Latvian SSR, by A. S. Sharova.
RUSSIAN, per, Pochvov; No 3, 1957, pp 19-31.
CFSTI TT 65-50067

Organotin Polymers, by M. F. Shostakovskiy, S. P. Kalinina, et al.
RUSSIAN, rpt, Proceedings of the International Symposium on Macromolecular Chemistry, Sect. 1, 1960, pp 160-166. 9232870
AEC SC-T-66-0727

Technology of Manufacture and Properties of Anti-friction Materials Containing Fluoroethylene; Basic Principles of, by A. P. Semenov, P. M. Matveevskiy,
RUSSIAN, rpt, Tekhnologiya Izgotovleniya i Svoystva Soderyashchikh Ftoroplast Antifrictionnykh Materialov (Osnovnyye Printsy Proizvodstva), Moskva 1963. pp 5-63.
Dept of Navy 4709/CNI 2141

Methane Control by Means of Modified Ventilation in the Extraction Sections, by A. A. Myasnikov, et al.
RUSSIAN, per, Trudy VostNII, Vol 4, 1964, pp 22-35.
NLL Ref: 8313.4 1965 (5105)

Removal of Free Fatty Acids From Oils by the Carbamide Method, by N. V. Vengerova, A. I. Petrova.
RUSSIAN, per, Trudy Vses. Nauch-Issled. Inst. Zhirov, No 23, 1963, pp 273-279.
NLL Ref: 5828.4 1965 (5795)

Chronicles,
RUSSIAN, per, Uzbekskiy Geologicheskiy Zhurnal, Ak Nauk Uzbekskoy SSR, No 1, 1966, pp 71-78.
*ACSI J-0015
ID 2204029366

High and Ultra-High Pressures in Chemistry, by M. G. Gonikberg.
RUSSIAN, bk, Vysokie i Sverkhvysokie Davleniya v Khimii, 1958, 56 p.
NLL R. 34822

Scientific
Chemistry (Contd)

Polydispersity and the Structure of the Polydiphenyl-Methylene Chain,
by D. G. Val'kovskii, et al.
RUSSIAN, per, Vysokomol. Soed. Vol 6, No 10,
1964, pp 1848-1852.
NLL Ref: 5207 1965 (1124)

Investigation of the Thermodynamic Properties of the Ternary Metallic System Bi-Cu-Sb at the Section $N_{Bi}:N_{Sb} = 1:1$ by the Method of EMF, by A. L. Lomov, A. N. Krestovnikov. 8 pp.
RUSSIAN, per, Zhurnal Prikladnoy Khimii, Vol 38, No 1, 1965, pp 188-192. 9700440
FTD-TT-65-1849

Chemical Problems of the Protection of Reservoirs and the Improvement of the Quality of Water, by L. A. Kulsky, et al.
UKRAINIAN, per, Ukrainskii Khimicheskii Zhurnal, Vol 30, No 12, 1964, pp 1241-1246.
NLL Shelfmark R.0184.3

Estimation of Copper Admixture in Metallic Germanium by Activation Analysis, by Gottfried.
CZECH, per, Chemicky Prumysl, Vol IX, No 4, April 1959, pp 179-182.
*ACSI J-0131
ID 2204032066

Research and Studies Relative to the Hot Semi-Pilot Plant, by R. Heremans, J. Broothaerts.
FRENCH, rpt, 9232862
AEC ORNL-tr-1121

Coatings of Polyvinylidene Chloride, by R. Lefaux. Interpack-66
FRENCH, per, L'Auxiliaire, No 293, April 1966, pp 15-19; 25-31.
*ACSI J-0118
ID 2204031066

Analysis of Plastics and Other Organic Substances by Gas Chromatography and Selective Galvanic Detection of Their Pyrolysis Products, by A. Berton.
FRENCH, per, Chimie Analytique, Vol 47, No 10, Oct 1965, pp 502-511. 9232730
AEC LA-tr-66-17

Effect of Hydroxyl Radicals on the Kinetics of the Combustion of Carbon Monoxide, by F. Gaillard-Cusin, H. James. 45 pp.
FRENCH, per, J. Chim. Phys. Vol 61, 1964, pp 363-373.
AEC NP-tr-1201

Scientific
Chemistry (Contd)

Catalysis by Alkaline Amides of Isotopic Exchange Between Hydrogen and Liquid Ammonia, by R. Delmas FRENCH, per, Journal de Chimie Physique, Vol 62, Nos. 11-12, 1965, pp 1423-1425.
*AEC 2390

Extraction of Some Acids by Aliphatic Amines, by Luis Matutano.
FRENCH, rpt, Thesis Submitted to the Faculty of Science, University of Paris, CEA Report R 2760.
30 Jun 1964. 9232733
AEC ORNL-tr-1050

Carbonylization, by W. Reppe.
GERMAN, per, Annalen der Chemie, Vol DLXXXII, 1953, pp 1-161.
*Dept of Navy/APL/JHU J-825

A Pyrolytic Cell for the Chromatographic Study of Polymers, by P. Drienovsky, O. Kysel.
GERMAN, per, Chemische Zvesti, Vol 17, 1963, pp 912-915.
NLL Ref: 3546.015 1965 (T 1 S1)

Synthesis of Aminoacyl- and Peptidyl-selenophenols and Their use for the Preparation of Linear and Cyclic Peptides, by H. D. Jakubke.
GERMAN, per, Chemische Berichte, Vol 97, No 10, 1964, pp 2816-2828.
*AEC 2377

Metal Hydrides. I. Alkali Hydrides, by Fritz Ephraim, Eduard Michel.
GERMAN, per, Helvetica Chimica Acta, Vol 4, 1921, pp 762-781. 9232724
AEC UCRL-tr-1321

The Solid-State Chemistry of the Actinide Oxides. "Radiochemical Effects in Oxidized Solids by α -Self Radiation, by Cornelius Keller. 261 pp
GERMAN, rpt, Kernforschungszentrum, Karlsruhe (West Germany), Institut für Radiochemie, Feb 1964, KFK-225.
*AEC BNWL-tr-15
EDC 30 Jun 66

Halogen-Treated Acetylene. III
by Randolph Riemenschneider, Klaus Brendel, 9 pp.
GERMAN, per, Liebigs Ann Chem, Vol DCXL, 1961, pp 5-13.
Dept of Navy Tr 4711/NMC No 1070

Scientific
Chemistry (Contd)

Halogen-Treated Acetylene. II,
by Randolph Riemschneider, Klaus Brendel,
14 pp.
GERMAN, per, Liebigs Ann Chem., Vol DCXL,
1961, pp 13-15.
Dept of Navy Tr 4712/NMC No 1071

Activation-Analytical Determination of Very Low
Iridium Contents in Uranium Oxide, by H. Ruf,
A. von Baechmann.
GERMAN, per, Zeitschrift fur Analytische Chemie,
Vol 215, 1966, pp 176-181. 9232859
AEC ANL-tr-304

Radiochemical Measurements of the Solubility
of Alkaline Earth Sulfates in Water and in
Sodium Sulfate Solutions, by K. H. Lieser. 14 pp.
GERMAN, per, Z. Anorg. Allgem. Chem., Vol 335,
1965, pp 225-236.
AEC ORNL-tr-649

Investigations of Alkaline Earth Metal-Alkaline
Earth Metal Halide Systems. The Electrical Con-
ductivity of the Solutions of Calcium in Molten
Calcium Chloride, by H.H. Emons, D. Richter.
GERMAN, per, Z. Anorg. Allg. Chem., Vol 339, 1965,
pp 91-98. 9232783
AEC IS-tr-30

Detection of Traces of Oxygen by Extinction of
Phosphorescence, by H. Kautsky, A. Hirsch.
GERMAN, per, Zeitschrift fur Anorganische und
Allgemeine Chemie, Vol 222, 126, 1935. 9232749
AEC-tr-6701

A Method for the Indexing of Powder Photographs,
by G. Gattow, H. Pictot.
GERMAN, per, Zeitschrift fur Anorganische und
Allgemeine Chemie, Vol 336, Nos 1&2, 1965,
pp 1-10. 9232881
AEC NP-tr-1377

Society of Hungarian Chemists Work Plan and
News, by Geza Hegyaljai Kiss, 12 pp.
HUNGARIAN, per, Magyar Kemikusok Lapja,
No 3, Mar 1966, pp. 150-153.
JPRB 35640

Analysis of Polyphenyl Mixtures by Gas Chroma-
tography With Capillary Columns, by N. Basili,
C. Bordonali, et al.
ITALIAN, per, Annali di Chimica, Vol 54, 1964,
pp 1081-1087. 9232882
AEC NP-tr-1375

Scientific
Chemistry (Contd)

Variation with Temperature of the Infra-
Red Spectrum of Polyvinyl Chloride,
Part 2, Behaviour in the Region of the
Glass Transition Temperature,
by K. Fukawa.
JAPANESE, per, J. Soc. Chem., Vol 66,
No 11, 1963, pp 1605-1609.
RAE No 1127

Synthesis of Amines Having a Formyl Group,
Report No 1, Synthesis of Formyl Phenacyl
Tropeine, by Y. Asahina, H. Nogami.
JAPANESE, per, Yakugaku Zasshi, 1941, Vol 61,
No 5, pp 167-169.
NLL Ref: 3544 1965 (T 88 J)

An Automatic Method for Determination of
The Amount of Oxygen Dissolved in Water,
by J. Wacławik, S. Waszak.
POLISH, per, Chemia Analityczna, Vol 8, 1963,
pp 737-746.
NLL Ref: 9022.09 1965 (4113)

Effect of Impurities on the Thermal
Decomposition Rate of Silver Oxide,
by V. V. Boldyrev, Yu. A. Zakharov.
POLISH, per, Khim Nauka Promy, Vol IV,
1959, pp 287-288.
NASA TT F-10,097

Third Symposium on Synthesis, Analysis,
and Utilization of Ion Exchangers, 7 pp.
ROMANIAN, per, Revista de chimie, No 1,
Jan 1966, pp. 3-7.
JPRB 35341

Ultrasonic Method of Analysing the Crystal-
Containing Mass When Automating Sugar-
Crystallization Processes, by L. Z. Amlins'-
ky, 7 pp.
UKRAINIAN, per, Avtomatika, No 2, Mar-Apr
1966, pp. 65-71.
JPRB 35826

Scientific
Earth Sciences & Astronomy

Studies in Physics of the Free Atmosphere,
by N. Z. Pinus and S. M. Shmetov, 44 pp.
RUSSIAN, bk, Aerologiya, Chast' II, Fizika Svobodnoy Atmosfery, 1965, pp. 199-203,
203-207, 310-317, 318-320, 321-338,
JPRS 35749

Methods of Spectral Analysis - Part II,
by V. L. Levshin, 25 pp.
RUSSIAN, rpt, Analysis of Luminescence, Sect 5, Chapter 19, Moscow 1962. 9699216
Dept of Navy/ONI Tr 2073

Methods of Spectral Analysis-Ch 20,
by V. L. Levshin, 57 pp.
RUSSIAN, rpt, Analysis of Luminescence, Section 5, Chapter 20, 1962. 9700344-V
Dept of Navy ONI Tr 2073

Mechanization of Development of Frozen Ground,
by G. A. Svistunov.
RUSSIAN, per, Avtomobilnyye Dorogi, Jan 1966,
2 pp.
*ACSI I-9701
ID 2204026466

Long-Range Tropospheric Propagation of
Microwaves, by B. A. Vvedenskiy et al,
427 pp.
RUSSIAN, bk, Dal'naya Troposfernoye Rasprostraneniye Ul'trakorotkikh Radiovoln,
1965, pp. 3-415.
JPRS 35585

Review of Turkestan Triangulation, by S. Fel,
RUSSIAN, per, Geodesist, No 4, 1930, pp 22-37.
ACIC TC-1021

Figure and Motion of the Moon, by A. A.
Yakovkin, 133 pp.
RUSSIAN, bk, Figura i Dvizheniye Luna, 1965,
pp. 5-137.
JPRS 35227

Brightness Distribution in the Limb Zone
of Mars, by L. A. Bugayenko, et al.
RUSSIAN, rpt, Fizika Lunny i Planet, 1964,
pp 54-57.
NASA TT F-10,018

Scientific
Earth Sciences & Astronomy (Contd)

Principles of Typing Photographs of
Flight Routes and Anomalies in Airborne
Geophysical Surveying by I. D. Boshnyakovich,
66 pp.
RUSSIAN, bk, Fotoprivyzka Aerogeofizicheskikh Marshrutov i Anomaly, Moscow, 1963,
pp 3-5, 7-33, 71-113.
*JPRS/NY-13253

Behavior of the Radiation Belts and Anomalous
Absorption of Cosmic Radio Noise in the Aurora
Borealis Region during the Magnetic Storms of
12-14 Feb and 20-21 Feb 1964, by S. N. Vernov.
RUSSIAN, per, Geomagnetizm i Aeronomiya, Vol 6,
No 1, 1966, pp 3-10.
*FTD-HT-66-304

Determination of the Statistical Characteris-
tics of the Spatial Structure of Cloud Fields
from Aerial Photographs, by L. G. Istomina,
13 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Fizika Atmosfery i Okeana, Vol II, No 3,
1966, pp. 263-271.
JPRS 35818

Determination of Sea Surface Temperature from
Its Thermal Radio Emission, by A. S. Gurvich
and S. T. Yegorov, 5 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Fizika Atmosfery i Okeana, Vol II, No 3,
1966, pp. 305-307.
JPRS 35818

Effect of the Angular Divergence of a Beam
of Light on Its Penetration into a Disper-
sive Medium, by A. P. Ivanov and I. D. Sher-
bat, 7 pp.
RUSSIAN, per, Izvestiya AN SSSR, Fizika Atmosfery i Okeana, Vol II, No 3, 1966,
pp. 312-315.
JPRS 35818

Experimental Determination of the Coefficient
of Extinction of Turbid Media, by V. A.
Timofeyeva and L. A. Koveshnikova, 7 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Fizika Atmosfery i Okeana, Vol II, No 3,
1966, pp. 320-323.
JPRS 35818

Scientific
Earth Sciences & Astronomy (Contd)

Intensity of Methane Absorption in 6190 Å Band on Jupiter's Disk, by V. G. Teyfel', N. V. Pribojewa. RUSSIAN, per, Izv Ak Nauk Kazakh SSR Ser Fiz Matem Nauk (Astrofiz), Vol XVI, No 1, 1963, pp 61-73. NASA TT F-10,062

Experiments Worthy of Mention, by V. I. Avgovich, 5 p. RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, 1965. AMS No G23, 195, 1965, No 4

Long-Period Rhythmic Phenomena in the Activity of the Gulf Stream, by N. P. Smirnov, 17 pp. RUSSIAN, per, Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, No 5, Sept-Oct 1965, pp. 427-437. JPRS 35408

Diurnal Variations of Density, Pressure, and Temperature in the Atmosphere, by Edward J. Osten. RUSSIAN, rpt, Akademiya Nauk SSSR, Komissiya po Issledovaniyu i Ispol'zovaniyu Kosmicheskogo Prostranstva, 1965, pp 39-41. ATD Report 66-36

The Leader of Underwater Lightning, RUSSIAN, np, Komsomol'skoye Znamya, 18 Nov, 1964. *FTD-HT-66-384

Fluctuations in the Density of the Atmosphere in 1960-1963, Obtained from the Orbital Variations of Artificial Earth Satellites, by N. P. Slovokhotova. RUSSIAN, pcr, Kosmicheskie Issled, Vol 3, 1965, pp 469-472. NLL Ref: 5207 1965 (1128)

Aftershock Mechanism and the Inelastic Properties of the Earth's Crust, by K. V. Pahennikov, 84 pp. RUSSIAN, bk, Mekhanizm Vosnikoveniya Aftershokov i Neupravitel'stvovaniye Zemnoy Kory, 1965, pp. 3-81. JPRS 35846

Automatic Plotting of Isolines on Maps of Meteorological Fields, by E. I. Nishnikov and A. N. Bagrov, 10 pp. RUSSIAN, per, Meteorologiya i hidrologiya, No 3, Mar 1966, pp. 10-17. JPRS 35188

Scientific
Earth Sciences & Astronomy (Contd)

Zonal Circulation in Equatorial Latitudes, by L. I. Litvinenko, 12 pp. RUSSIAN, per, Meteorologiya i hidrologiya, No 3, Mar 1966, pp. 26-32. JPRS 35188

On the Structure of Stratiform Clouds, by B. P. Bysik, 8 pp. RUSSIAN, per, Meteorologiya i hidrologiya, No 3, Mar 1966, pp. 32-37. JPRS 35188

A Method of Calculating the H_{500} Geopotential for the Natural Synoptic Period, by E. I. Mepistsveridze, 9 pp. RUSSIAN, per, Meteorologiya i hidrologiya, No 3, Mar 1966, pp. 40-44. JPRS 35188

Investigation of the Turbulence of the Atmosphere by Means of an Acoustic Anemometer, by V. N. Ivanov and Yu. B. Burkakov, 9 pp. RUSSIAN, per, Meteorologiya i hidrologiya, No 3, Mar 1966, pp. 49-53. JPRS 35188

Aerovisual Observations of Grain-Crop Conditions, by G. I. Borisoglebskiy, 5 pp. RUSSIAN, per, Meteorologiya i hidrologiya, No 3, Mar 1966, pp. 54-55. JPRS 35188

Literature on Meteorology and Hydrology for 1965, 14 pp. RUSSIAN, per, Meteorologiya i hidrologiya, No 3, Mar 1966, pp. 59-62. JPRS 35188

Gravimetric Surveying, by S. S. Krasovskiy, 15 pp. RUSSIAN, bk, Metodika Kompleksirovaniya Geofizicheskikh Issledovaniy Pri Geologicheskikh Kartirovaniyakh, 1965, pp. 63-75. JPRS 35845

The Flight of Automatic Interplanetary Stations "Venus-2" and "Venus-3", RUSSIAN, rpt, O Polete Avtomaticheskikh Meshplatazernykh Stantsiy "Venera-2" i "Venera-3", March 1966. ACIC TC-1033

Scientific
Earth Sciences & Astronomy (Contd)

Short-Period Pulsations of the Earth's Electromagnetic Field, by A. G. Kalashnikov, V. A. Troitskaya, eds.
RUSSIAN, per, Rezul'tat. Issled. po Programme Mezh. Geofiz. Goda., Razdel 3, No 3, 1961.
NLL Ref: 6015.49 F 1965 (104)

Spectral, Electrophotometrical and Radar Researches of Aurorae and Airglow, by V. I. Krasovskiy, ed.
RUSSIAN, per, Rezul'tat. Issled. po Programme Mezh. Geofiz. Goda., Razdel 4, No 6, 1961.
NLL Ref: 6015.49 F 1965 (107)

Aurorae and Airglow, by V. I. Krasovskiy, ed.
RUSSIAN, per, Rezul'taty Issled po Prog. Mezh. Geofiz. Goda., Razdel 4, No 10.
NLL Ref: 6015.49 F 1965 (204)

The Effect of Forests on the Accumulation and Melting of Snow, by V. I. Rutkovskiy.
RUSSIAN, per, Sbornik Sneg i Talye Vody ikh Izuch i Ispol Ak Nauk SSSR, 1956, pp 184-205.
CFSTI TT 65-50028

Folded Deformations in the Earth's Crust, Their Types and Origin, by V. V. Belousov, A. A. Sorskiy, 366 pp.
RUSSIAN, bk, Skladchatye Deformatsii Zemnoi Kory, ikh Tipy i Mekhanizm Obrazovaniya, Moscow 1962.
CFSTI TT 65-50092

On the Calculation of Wind Wave Elements in the Case of a Variable Wind, by I. S. Brovиков.
RUSSIAN, per, Trudy Gosudarstvennyi Okeanograficheskii Institut, No 38, 1957, pp 3-10.
Dept of Navy Tr 4724/APL/JHU TG 230-T471

Concerning the Derivation and Investigation of Stokes' Formula, by V. V. Brovar,
RUSSIAN, per, Trudy Moskovskogo Instituta Inzhenerov Geodezii, Aerofotos"yemki i Kartografii, No 33, 1958, pp 15-18.
ACIC TC-1038

Application of First Approximation Formulae for the Computation of Characteristics of the Earth's Gravitational Field, by L. P. Pellinen,
RUSSIAN, per, Trudy Nauchno-Issledovatel'skogo Instituta Geodezii Aeros"yemki i Kartografii, No 157, 1965, pp 85-100.
ACIC TC-1025

Scientific
Earth Sciences & Astronomy (Contd)

Application of the Method of Models to the Analysis of Formulas Determining the Figure of the Earth, by V. F. Yeremeyev,
RUSSIAN, per, Trudy Tsentral'nogo Nauchno-Issledovatel'skogo Instituta Geodezii, Aerofotos"yemki i Kartografii, No 75, 1950, pp 11-77.
*ACIC TC-1062

On the Question of Determining Normal Heights, V. F. Yeremeyev,
RUSSIAN, per, Trudy Tsentral'nogo Nauchno-Issledovatel'skogo Instituta Geodezii, Aeros"yemki i Kartografii, No 157, 1965, pp 69-84.
*ACIC TC-1046

Computation of the First and Second Vertical Derivatives of Gravity From the Maps of Gravity Anomalies, by M. I. Yukina,
RUSSIAN, per, Trudy Tsentral'nogo Nauchno-Issledovatel'skogo Instituta Geodezii Aeros"yemki i Kartografii, No 157, 1965, pp 116-124.
ACIC TC-1026

Evaluation on the Earth's Models of the Precision of Numerov's Formula for the Vertical Gradient of Gravity, by M. P. Ignatova,
RUSSIAN, per, Trudy Tsentral'nogo Nauchno-Issledovatel'skogo Instituta Geodezii Aeros"yemki i Kartografii, No 157, 1965, pp 125-134.
ACIC TC-1027

Sputnik Meteorology, by M. S. Malkevich.
RUSSIAN, per, Zemlya i Vselennaya, Vol I, No 6, 1965, pp 31-35.
NASA TT F-9899

Status and Outlook in Radioastronomical and Cybernetic Research, 6 pp.
UKRAINIAN, per, Dopovidi Akademiyi Nauk Ukrayins'koyi RSR, No 1, 1966, pp. 129-132.
JPRS 35563

A Preliminary Study of the Characteristics and Evolution of the Mean Monthly Circulation at the 500-mb Level Over the Northern Hemisphere (II) Ultra-long Waves, by WANG Shao-wu, 26 p.
CHINESE, per, Ch'i-Hsiang Hsueh-pao, Vol XXXIV, No 3, 1964, pp 316-328. 9700543
AFCRL EMM-65-18

Scientific
Earth Sciences & Astronomy (Contd)

A Method for Calculating the Vertical Motions and the Distribution of the Heat Sources and Sinks in the Stratosphere Over the Northern Hemisphere in January 1958, by SUN Shwu-Ching, 24 p.
CHINESE, per, Ch'i-Hsiang Hsueh-pao, Vol XXXIV, No 4, 1964, pp 397-408. 9700541
AFCRL EMM-65-19

Strong Electric Field Radiosonde and Analysis of Results Obtained in Thunderclouds, by Yuan Chen, Chiang Pen-t'ang, Jen Li-hsin, Chou Shih-chien, and Chen Ta-chou, 14 pp.
CHINESE, per, Ch'i-hsiang Hsueh-pao, Vol 35, No 4, Nov 1965, pp. 440-448.
JPRS 35490

A Discussion on the Mixing of Bounded Water Masses, by Hsu Ssu, Wang Hsi-hou and Wang Jen-shu, 25 pp.
CHINESE, per, Hai-yang yu Hu-chao, Vol VII, No 3, Aug 1965, pp. 278-294.
JPRS 35584

Heng-hsing T'ien wen hsueh (Stellar Astronomy) by Tai Wen-sai, 11 pp.
CHINESE, bk, Heng-hsing T'ien wen hsueh, Nov 1965, pp. ii-vii & 1-7.
JPRS 35584

Physics of the Upper Atmosphere, by Chao Chiu-chang, 8 pp.
CHINESE, bk, Kao-k'ung Ta-ch'i Wu-li-hsueh, Vol I, May 1965, pp. i-ix.
JPRS 35498

Geological Characteristics of Wanshan Mercury Ore Deposit, Kweichow, by Chou Te-chung and Li Wen-yen, 24 pp.
CHINESE, per, Ti-chih Lam-p'ing, Vol 18, No 1, Jan 1958, pp. 11-24.
JPRS 35643

Opinions on "Geological Characteristics of Wanshan Mercury Ore Deposit, Kweichow" by Chou Te-chung & Li Wen-yen, 5 pp.
CHINESE, per, Ti-chih Lam-p'ing, Vol 18, No 1, Jan 1958, pp. 75-77.
JPRS 35643

Reply to T'ien's Opinions, by Chou Te-chung, 10 pp.
CHINESE, per, Ti-chih Lam-p'ing, Vol 18, No 1, pp. 77-80.
JPRS 35643

Scientific
Earth Sciences & Astronomy (Contd)

Opinions on the Review of Sun Mai's "General Geology" by Li Chiang, 8 pp.
CHINESE, per, Ti-chih Lam-p'ing, Vol 18, No 1, Jan 1958, pp. 82-85.
JPRS 35643

Problems Concerning the Determination of Atmospheric Integrated Absorption Functions From Laboratory Measurements, by KUNG Chih-pen, CHINESE, per, Ti-Ch'iu Wu-Li Hsueh-Pao, Vol XIV, No 1, 1965, pp 1-13. 9232801
Emmanuel College
Ema-65-46(a)

The Reversions of the Light Intensity in the Sunlight Direction in the Ultra-violet Ozone Absorption Band, by LI Zan-ju, CHINESE, per, Ti-Ch'iu Wu-li Hsueh-pao, Vol XIV, No 1, pp 14-19. 9232801
Emmanuel College
Ema-65-46(a)

Determination of the Thickness of the Earth's Crust in China from the Group Velocity of Raleigh and Love Surface Waves, by SUNG Chung-ho and T'AN Cheng-yeh, CHINESE, per, Ti-Ch'iu Wu-li Hsueh-pao, Vol XIV, No 1, 1965, pp 33-44. 9232801
Emmanuel College
Ema-65-46(a)

Statistical Multiple Seismic Detection Theory (I), by MA En-tse, CHINESE, per, Ti-ch'iu Wu-li Hsueh-pao, Vol XIV, No 1, 1965, pp 45-55. 9232801
Emmanuel College
Ema-65-46(a)

The Use of Conformal Mapping in the Interpretation of Magnetic and Gravitational Data, by LEE Lin-yuan, CHINESE, per, Ti-Ch'iu Wu-li Hsueh-Pao, Vol XIV, No 1, 1965, pp 67-72. 9232801
Emmanuel College
Ema-65-46(a)

Sp'Waves and the Crustal Thickness of China, by TING Yun-yu, CHINESE, per, Ti Ch'iu Wu Li Hsueh Pao, No 3, 1965, pp 168-172.
ACIC TC-1045

Scientific
Earth Sciences & Astronomy (Contd)

The Geomagnetic Field in Peking Region and Its Secular Variation During the Last 2000 Years, by TENG Hsing-huei and LI Tung-Chieh, CHINESE, per, Ti Ch'iu Wu Li Hsueh Pao, No 3, 1965, pp 181-196.
ACIC TC-1044

A Preliminary Study on the Classification of Rivers of Western Szechwan and Northern Yunnan, by Kuo Ching-hui, 28 pp.
CHINESE, per, Ti-li Hsueh-pao, Vol 31, No 3, Sept 1965, pp. 212-224.
JPRS 35929

A Study of Gully Erosion of the Granite Area in Ho-T'ien, Fukien, by Chao Chao-ping, Wu Yu-kung and Ts'ai Wen-yen, 21 pp.
CHINESE, per, Ti-li Hsueh-pao, Vol 31, No 3, Sept 1965, pp. 254-263.
JPRS 35929

Characteristics of Solar Radiation in the Ch'in-Ling Mountains, by Chen Ming-jung and Wang Chou-kun, 9 pp.
CHINESE, per, Ti-li Hsueh-pao, Vol 31, No 3, pp. 264-268.
JPRS 35929

Application of the Gravimeter for Measurement of Gravity at Sea, by CHANG Shan-yan and LI Hsi-chi, CHINESE, per, T'i-se-hui Hsueh-pao, Vol VI, No 2, 1963, pp 90-102.
ACIC TC-1063

On the Weiho Graben, CHINESE, per, Wang Ts'un Ch'eng, Ti Chi Hsueh Pao, Vol XLV, No 2, May 1965, pp 153-164.
*ACIC TC-1029

Propagation of Optic Waves in the Atmosphere, by M. Miller. CZECH, per, Jenna Mechanika A Optika, No 10, 1965, pp 315-317.
*PTD-HT-66-341

Multisphere Technique. I. General Characteristics and Applications, by H. Zaborowski, FRENCH, rpt, PAS 63/72, 1963
*AEC 2375

Scientific
Earth Sciences & Astronomy (Contd)

Remarks on the Curve of Solar Energy in the Violet and Ultraviolet Regions by Jean Dufay, FRENCH, per, Annales d'Astrophysique, Vol V, Nos 3-4, July-October 1942, pp 85-92.
*Dept of Navy/NRL

Comparative Study of the Electrolytic Formation of Rare Earths and Actinium Analogs, by Francois David, Georges Bouissieres. FRENCH, rpt, Bulletin Societe Chimique de France, Paris, 1965, pp 1001-1007. 9232748
AEC UCRL-tr-1324

Geologic and Geotechnical Studies on Proposed Sites for a 300 Gev Accelerator, by J. Gervaise, Ch. Mallet. 32 pp.
FRENCH, rpt, Etudes Geologiques et Geotechniques sur les sites Proposes Pour un Accelerateur de 300 GeV. 17 Nov 1965.
AEC UCRL-tr-1320

Refractory Composition of Derivative Structures of the Perovskite Structure in the Zircon-Oxide Systems of Alkaline Earth Metals, by Gilbert Tilloca. FRENCH, bk, Rev Hautes Temper et Refract, Composes Refractaires de Structures Metaux Alcaline-Terreux, 1964, pp 331-342.
*PTD-HT-66-332

On the Influence of Meteorological Parameters on the Location of the Maximum Immission Concentration at Ground Level With a Given Emission Source, by H. Reuter. GERMAN, per, Bioöklimatologie, Ser A, Vol 14, 1964, pp 55-68. 9232774
AEC ORNL-tr-979

A Gamma Quantum Spectrometer for Measurements in the Atmosphere, by D. Kahn, K. Pinkau, et al. GERMAN, rpt, Christian-Albrechts-Universität, Kiel, 1966.
*AEC 2379

The Significance of Position in Spatial Entities, by Andreas Angyal, 33 p.
GERMAN, per, Kwartalnik Psychologiczny, Vol III, No 3/4, 1932, pp 5-42.
9700125
AFCR T-G-243

Scientific
Earth Sciences & Astronomy (Contd)

Geophysical Explorations in the Congo Basin and Their Interpretation (Belgian Congo), by Pierre Evrard and Arie van Weelden,
FRENCH, rpt, Paper Presented at the Fifth World Petroleum Congress, Section I, Paper 29, 1959, pp 11.
ACIC TC-1024

Gravimetric Measurements in Brittany, by Robert Bollo and Jean Goguel,
FRENCH, rpt, Publications du Bureau des Recherches Geologiques et Geophysiques, No 8, 1950, pp 1-37.
ACIC TC-1018

Consideration of Simplified Terrain Types in the Calculation of the Turbulent Propagation of Chimney Gases, by Hermann Stumke.
GERMAN, per, Staub, Vol 24, No 5, 1964, pp 175-182. 9231371
AEC ORNL-tr-981

Meteorological Factors in the Propagation Calculation, by Werner Klug.
GERMAN, per, Staub, Vol 24, No 10, 1964, pp 396-400. 9232888
AEC ORNL-tr-982

Test Results Obtained With a NRK-2 Meridian Direction Gyroscope, by J. Merkel.
GERMAN, per, Vermessungstechnik, Vol XIV, No 2, 1966, pp 61-65.
*ACSI J-0016
ID 2204029466

Conference on Scientific Results Gained From Observations of Artificial Earth Satellites, by M. Schadlich.
GERMAN, per, Vermessungstechnik, Vol XIV, No 2, 1966, pp 70-71.
*ACSI I-J0016
ID 2204029466

Procedure for a Separate Investigation of Single Mineral Components of Stone Meteorites by Means of Specific Solvents, by E. Vilcek, et al.
GERMAN, per, Zeitschrift Fuer Naturforschung, Vol 20a, 1965, pp 1282-1295.
*ABC
EDC 1 Aug 66

Scientific
Earth Sciences & Astronomy (Contd)

Discussion and Considerations on an Overall Adjustment of the International Gravity Reference Net, by C. Morelli,
ITALIAN, per, Annali di Geofisica, Vol I, No 2, 1948, 31 p.
*ACIC TC-1056

On the Theoretical Calculation of the Deviations of the Geoid From the Ellipsoid, by Paolo Pizzetti,
ITALIAN, per, Atti della Reale Accademia delle Scienze di Torino, Vol XLVI, No 7, 1911, pp 331-350.
*ACIC TC-1051

On the Definition of Normal Gravity, by G. Silva,
ITALIAN, per, Atti della Reale Accademia Nazionale dei Lincei, Vol VIII, pp 691-696, 1928.
*ACIC TC-1071

On the Formula for Normal Gravity, by G. Silva,
ITALIAN, per, Atti della Reale Accademia Nazionale dei Lincei, Vol XI, 1930, pp 641-644.
*ACIC TC-1072

The Italian Base Gravity Network, by C. Morelli,
ITALIAN, rpt, Atti del Settimo Convegno Nazionale del Metano e del Petrolio, Vol I, 1952, pp 451-460.
*ACIC TC-1057

Completion of the Gravity Survey of Northwestern Italy, by G. Inghilleri,
ITALIAN, per, Bollettino di Geodesia e Scienze Affini, Vol XVIII, No 3, 1959, pp 339-344.
*ACIC TC-1047

Gravity and Magnetic Survey of Central and Eastern Veneto, by C. Morelli,
ITALIAN, per, Metano Anno, Vol VIII, No 12, 1954, pp 1-19.
*ACIC TC-1058

Regional Gravity Survey Along the Adriatic Coast, by C. Morelli,
ITALIAN, rpt, Pubblicazione No 66, Nuova Serie, Osservatorio Geofisico, 1954, pp 429-443.
*ACIC TC-1059

On the Revision of Base Stations for Gravity Measurements, by C. Morelli,
ITALIAN, rpt, Report Presented at the III Congresso Nazionale dell'Unione Matematica Italiana Sezione V: Geodesia, Sept 23-26, 1948, 7 p.
*ACIC TC-1055

Scientific
Earth Sciences & Astronomy (Contd)

Padova-Trieste Gravity and Regional Gravity Survey of Central and Eastern Veneto, by C. Morelli, ITALIAN, per, Rivista di Geofisica Applicata, Vol XI, No 2, 1950.
*ACIC TC-1054

Orientation of the Terrestrial Ellipsoid with the Use of Artificial Satellites, by C. Popovici, ITALIAN, per, Revista da Geodesie Si Organizarea Teritoriului, Vol IV, No 9, 1965, pp 5-12.
*ACIC TC-1031

Theory of Representation of Surfaces for Surveyors and Cartographers, by Franciszek Biernacki. POLISH, bk, Teoria Odwzorowan Powierzchni dla Geodetow i Kartografow, Warsaw, 1965.
CFSTI TT 61-11313

News about the Cosmos. POLISH, np, Zolnierz Polski, 4 Jul 1965.
*FTD-HT-66-402

Bulletin of Applied Geophysics, Review of Geological and Geophysical Institute, SERBOCROATIAN, per, Vesnik Zavod za Geoloska i Geofizicka Istrazivanja, Ser C, No 4, 5, 1963-1964.
CFSTI TT 64-11454/3

Report of Gravimetric Works in Central America and Panama, Monges Caldera Julio, et al., SPANISH, per, Anales del Instituto de Geofisica, Vol VIII, 1962, pp 13-20.
ACIC TC-1039

Complex Geophysical Investigations of the Abyssal Structure of the Earth's Crust in the Example of the Caspian Sea Region, by Y. N. Godin, SPANISH, rpt, Congresso Geologica International XX Session. Ciudad de Mexico, 1956, Seccion IX, Geofisica Aplicada, Vol II, 1958, pp 237-248.
ACIC TC-998

Gravimetric Research in the Chillan Region, by Cinna Lomitz, SPANISH, per, Instituto de Investigaciones Geologicas, Chile, No 4, 1959, pp 6-19.
ACIC TC-1041

Scientific
Electronics

Electronic and Semiconductor Apparatus in Metallurgy, by V. I. Feigin. RUSSIAN, bk, 1964.
NLL R. 33534

Electronics Part 1, by V. I. Galonov. RUSSIAN, bk
NLL R. 20052

Electronics Part 2, by V. I. Galonov. RUSSIAN, bk
NLL R. 20053

Handbook of Semiconductor Devices, by V. Yu. Lavrinenko. RUSSIAN, bk, 1964, 3rd Ed.
NLL R. 35954

Principles of Electronics, by I. P. Zherebtsov. RUSSIAN, bk
NLL R. 19904

Problems in Electrodynamics, by V. V. Batygin, I. N. Toptygin. RUSSIAN, bk, 1964.
Academic Press

Semiconductor Silicon Diodes and Triodes in Technology, by G. A. Zelikman. RUSSIAN, bk, 1964.
NLL R. 34601

A Unified Multichannel Telemetering System for the Study of Nuclear Radiations, by A. A. Bragin, R. F. Fedoriv. 6 pp. RUSSIAN, per, Akad. Nauk UkrSSR Fiziko-Mekhanicheskiy Institut. Voprosy Peredachi Informatsii, No 3, 1964, pp 118-121.
9700170
FTD-TT-65-1889

Free Oscillations and Stability of Continuous Sandwich Plates with a Light Filler, by Yu. V. Krasnobayev. UKRAINIAN, per, Dopovidi Ak Nauk Ukr RSR, No 3, 1965, pp 314-317.
*FTD-HT-66-285

Scientific Electronics (Contd)

About the Stability of Systems,
by I. A. Syromyatnikov.
RUSSIAN, per, Elektrichestvo, No 1,
1957, pp 38-41.
NLL RTS 2975

Measuring Converters of Electric Magnitudes to
Pulse Frequency, by Yu. N. Yevlenov,
R. R. Kharchenko. 19 pp.
RUSSIAN, per, Elektrichestvo, No 1, 1965,
pp 48-53. 9700436
FTD-TT-65-908

Certain Problems of the Physics of Cavitation,
by B. R. Lazarenko, Yu. N. Paukov, and M. K.
Bologa, 22 pp.
RUSSIAN, per, Elektronnaya Obrabotka
Materialov, No 2, 1965,
JPRS 35414

Electron-Beam Machining of Materials, by V.
K. Popov, 16 pp.
RUSSIAN, per, Elektronnaya Obrabotka
Materialov, No 2, 1965,
JPRS 35414

Synthesis of the System of Digital Preset
Control for a Precision Electric Spark Unit,
by K. K. Gularyan and Ye. V. Gusev, 13 pp.
RUSSIAN, per, Elektronnaya Obrabotka
Materialov, No 2, 1965.
JPRS 35414

The Electrical Conductivity of Polymers,
by B. I. Sazhin.
RUSSIAN, bk, Elektroprovodnost Polimerov,
1964, 116 pp.
NLL R. 35246

General Characteristics of Electric Arcs, by
O. I. Yas'ko.
RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal,
No 12, 1964, pp 112-116.
*FTD-HT-66-397

Sufficient Conditions In Discontinuous Vari-
ation Problems of Optimization of Control
Processes with Limitations on Control Func-
tions, 40 pp.
RUSSIAN, per, Issledovaniya po Dinamike
Poleta, No 1, 1965
JPRS 35300

Scientific Electronics (Contd)

Optimal Refinement of a Control Program,
by V. V. Andreyevskiy, 18 pp.
RUSSIAN, per, Issledovaniya po Dinamike
Poleta, No 1, 1965, pp. 5-19.
JPRS 35300

Trajectory Optimization of Multistage
Vehicles, by A. A. Bolonkin, 18 pp.
RUSSIAN, per, Issledovaniya po Dinamike
Poleta, No 1, 1965, pp. 20-78.
JPRS 35300

The Theory of Flight of Vehicles with Con-
trolled Radial Force, by A. A. Bolonkin,
44 pp.
RUSSIAN, per, Issledovaniya po Dinamike
Poleta, No 1, 1965, pp. 79-118.
JPRS 35300

Analytical Design of Regulators in Systems
Reproducing a Useful Signal under Noise Con-
ditions, by A. G. Zaytsev, 15 pp.
RUSSIAN, per, Issledovaniya po Dinamike
Poleta, No 1, 1965, pp. 180-193.
JPRS 35300

Analytical Construction of Autopilots of
Controlled Flight Devices, by A. G. Zaytsev,
25 pp.
RUSSIAN, per, Issledovaniya po Dinamike
Poleta, No 1, 1965, pp. 194-216.
JPRS 35300

On Optimal Slipping Modes in Variation Prob-
lems of Flight Dynamics, by V. F. Krotov, V.
I. Gurman, 22 pp.
RUSSIAN, per, Issledovaniya po Dinamike
Poleta, No 1, 1965, pp. 217-236.
JPRS 35300

Determining Initial Conditions with Start
of An Airborne Vehicle from a Moving Plat-
form, by A. A. Kuznetsov, 34 pp.
RUSSIAN, per, Issledovaniya po Dinamike
Poleta, No 1, 1965, pp. 257-282.
JPRS 35300

Usage of Dynamic Programming for Solution
of Variation Problems in Flight Dynamics,
by I. M. Sharonova, 18 pp.
RUSSIAN, per, Issledovaniya po Dinamike
Poleta, No 1, 1965, pp. 338-354.
JPRS 35300

Scientific Electronics (Contd)

An Ally of Electronics, by N. S. Lidorenko.
RUSSIAN, np, Izvestiya, Feb. 11, 1965, p 4.
NLL Shelfmark 0072.667

Hall Effect in a Channel with Section
Electrodes, by I. M. Tolmach, N. N. Yasnitskaya.
RUSSIAN, per, Izvestiya Ak Nauk Energetika I
Transport, No 5, 1965, pp 91-104.
JPRS 35,873

Dirac Electron in the Field of a Plane Electro-
magnetic Wave, by I. I. Gol'dman.
RUSSIAN, per, Iz Ak Nauk Arm SSR, Ser Fiz Mat
Nauk, Vol XVII, No 6, 1964, pp 129-135.
JPRS 35,873

Optimization of Communication Between the Sections
of a Chemical Plant, by A. Z. Korchinskiy,
I. N. Minaker, 16 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 31-40 .
JPRS 35,873

The Acceleration of the Simulation Process when
Evaluating the Efficiency and Reliability of
Complex Systems by the Method of Statistical
Tests, by V. M. Rakhal'skiy, 7 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 41-45
JPRS 35,873

On Evaluation of the Reliability of Sequential
Systems with Repair, by O. V. Shcherbakov, 8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 46-50
JPRS 35,873

On the Reliability of Logical Control Systems
of the Cyclical Type with Periodic Control of
State of Repair, by A. M. Gurevich, 11 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 50-63
JPRS 35,873

The Determination of Probability and Reliability
of Operation of a System During a Given Time
Interval, by V. S. Zaritskiy, 7 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 51-55
JPRS 35,873

Scientific Electronics (Contd)

The Transfer Functions of Contact Relay Systems
Taking Into Account Element Disrepair, by
Yu. A. Gogin, 9 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 64-69
JPRS 35,873

Optimal Use of Multi-Channel Systems for
Separation of Regular Signals from Noise,
by I. A. Bol'shakov, B. A. Grishanin, 12 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 95-103
JPRS 35,873

A Method for Synthesis of a Statistically
Optimal System, by Yu. V. Semenov, 8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 104-109
JPRS 35,873

Design of Automatic Step Optimizers with
Dependent Search, Ye. D. Garber, 13 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 110-117
JPRS 35,873

Estimation of the Effectiveness of Automatic
Control System with Selfadjustment with Respect
to the Input Signal, by N. N. Korobov, 8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh Kiber-
netika, No 1, Jan/Feb 1966, pp. 118-123
JPRS 35,873

A Discrete SelfAdjusting Tracking System, by
V. I. Kostyuk, 11 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh Kiber-
netika, No 1, Jan/Feb 1966, pp. 124-131.
JPRS 35,873

The Realization of a Process Which is Optimal
With Respect to High Speed in a Third Order
Control System, by N. P. Lonshakov, 13 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh Kiber-
netika, No 1, Jan/Feb 1966, pp. 132-139
JPRS 35,873

The Variability Index in Evaluating the
Process Quality in Nonlinear Systems, by
I. P. Pal'tov, V. I. Tsvetkov, 10 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn, Tekh Kiber-
netika, No 1, Jan/Feb 1966, pp. 140-145
JPRS 35,873

Scientific Electronics (Contd)

Correction Circuit in Pulse Systems with Variable Parameters, by I. P. Devyaterikov, 13 pp. RUSSIAN, per, Iz Ak Nauk SSSR Otn. Tekh Kibernetika, No 1, Jan/Feb 1966, 146-153
JPRS 35,873

The Determination of the Statistical Characteristics of a Nonlinear Tracking System, by A. M. Perel'man, 13 pp. RUSSIAN, per, Iz Ak Nauk SSSR Otn. Tekh Kibernetika, No 1, Jan/Feb 1966, pp. 154-160
JPRS 35,873

The Control Law for an Airplane Flying from One Point to Another in the Shortest Time, by C. F. Molokanov, 13 pp. RUSSIAN, per, Iz Ak Nauk SSSR Otn. Tekh Kibernetika, No 1, Jan/Feb 1966, pp. 161-167
JPRS 35,873

The Definition of the Regions of Attraction for Various Conditions of a Tristable Parametron, by L. A. Sinitiskiy, 13 pp. RUSSIAN, per, Iz Ak Nauk SSSR Otn. Tekh Kibernetika, No 1, Jan/Feb 1966, pp. 175-184
JPRS 35,873

Electronics As Key to Progress, by A. I. Berg, 5 pp. RUSSIAN, np, Krasnaya zvezda, 7 May 1966, p. 2.
JPRS 35586

Methods of Converting Time Into Amplitude in the Nanosecond Range, by M. N. Drashev. RUSSIAN, bk, Metody Preobrazovaniya Vremeni V Amplitudu V Nanosekundnom Diapazone, Joint Institute of Nuclear Research, Dubna, 1965, pp 1-35. ABC SCL-t-65-284

Review of Recent Literature on Electronics, by S. A. Barchenkov, 7 pp. RUSSIAN, per, Morskoy Sbornik, No 1, 1966, pp. 89-92.
JPRS 35216

Unified Automated Communications Network for the Soviet Union, 6 pp. RUSSIAN, per, Radio, No 3, 1966, pp. 3-5.
JPRS 35467

Scientific Electronics (Contd)

Radar Observation Techniques. Radar Observation in Poor Visibility, A. N. Rakhovetskiy. RUSSIAN, bk, Radiolokatsionnoye Naslyudenie v Uloviyakh Plokoy Vidimosti, Moscow, 1962, pp 1-98.
*FTD-MT-66-56

Section on Antennas, 40 pp. RUSSIAN, bk, Sektsiya Antennykh Ustroystv, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/NY-13302

Section on Electronics, 128 pp. RUSSIAN, bk, Sektsiya Elektroniki, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/DC-12413

Section on Quantum Electronics. RUSSIAN, bk, Sektsiya Kvantovoy Elektroniki, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966, 103 pp.
*JPRS/NY 13302

Section on Microelectronics, 32 pp. RUSSIAN, bk, Sektsiya Mikroelektroniki, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/DC-12413

Section on General Radio Engineering, 175 pp. RUSSIAN, bk, Sektsiya Obshchey Radiotekhniki, XXII Vsesoyuznaya Nauchnaya Sessiya Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/SF-4263

Section on Semiconductor Devices, 76 pp. RUSSIAN, bk, Sektsiya Poluprovodnikovykh Fizikov, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/NY-13302

Section on Wire Communications, 60 pp. RUSSIAN, bk, Sektsiya Provodnoy Svazi, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/SF-4263

Scientific
Electronics (Contd)

Section on Radio Measurements, 32 pp.
RUSSIAN, bk, Sektsiya Radioizmereniy, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/SF-4263

Section on Radio Transmitters, 27 pp.
RUSSIAN, bk, Sektsiya Radioperedayushchikh Ustroystv, XXII Vsesoyuznaya Nauchnaya Sessiya Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/SF-4263

Section on Radio Receivers and Amplifiers, 127 pp.
RUSSIAN, bk, Sektsiya Radiopriyemnykh Ustroystv i Usilitely, XXII Vsesoyuznaya Nauchnaya Sessiya Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/SF-4263

Section on Radio Broadcasting, Electro-acoustics and Sound Recording, 42 pp.
RUSSIAN, bk, Sektsiya Radioveshchaniya, Elektroakustiki i Zvukozapis, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/SF-4263

Section on Radiowave Propagation.
RUSSIAN, bk, Sektsiya Rasprostraneniya Radiovoln, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966,
47 pp.
*JPRS/NY-13302

Section on Television, 70 pp.
RUSSIAN, bk, Sektsiya Televideniya, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/SF-4263

Section on Information Theory.
RUSSIAN, bk, Sektsiya Teorii Informatsii, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966,
111 pp.
*JPRS/NY 13302

Section on the Theory and Technique of Transmitting Discrete Signals.
RUSSIAN, bk, Sektsiya Teorii i Tekhniki Peredachi Diskretnykh Signalov, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966,
88 pp.
*JPRS/NY 13302

Scientific
Electronics (Contd)

Section on Waveguides, 29 pp.
RUSSIAN, bk, Sektsiya Volnovodnykh Ustroystv, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/NY-13302

VST-10 Medium Accuracy Wavemeter,
by K. K. Osipov, V. V. Pasynkov.
RUSSIAN, rpt, Spravochnik po Radiocizmeritel'nym Priboram, Chast II, Sovetskoye Radio, Moscow, 1960, pp 24-25.
*ACSI I-9690
ID 2204025366

Small Non-ballast Tubular Xenon Lamp with Water Cooling, by I. S. Marshak.
RUSSIAN, per, Svetotekhnika, Vol 11, 1963, pp 13-17.
NLL RTS 3073

Design of Electrodes for Fluorescent Lamps, by G. N. Rokhlin, S. P. Reshenov.
RUSSIAN, per, Svetotekhnika, No 1, 1964, pp 8-13.
NLL RTS 2919

Analysis of the RPL Electronic Block Circuit and Structural Modernization of it, by A. Kh. Slobodkin, 11 pp.
RUSSIAN, bk, Teoriya, Taschet i Printsipy Konstruirovaniya Elektronnoy Agregatnoy Unifitsirovannoy Sistemy, 1965, pp. 56-65
JPRS 35,632

Dynamic Characteristics of Electrical Servomechanisms by A. A. Zhidkov, Yu. S. Yakovlev, 9 pp.
RUSSIAN, bk, Teoriya, Taschet i Printsipy Konstruirovaniya Elektronnoy Agregatnoy Unifitsirovannoy Sistemy, 1965, pp. 66-74
JPRS 35,632

Using the Pulse Characteristics of Actuating Mechanisms in the Determination of the Dynamic Properties of PI-Regulators, by Yu.V. Novoselov, 7 pp.
RUSSIAN, bk, Teoriya, Taschet i Printsipy Konstruirovaniya Elektronnoy Agregatnoy Unifitsirovannoy Sistemy, 1965, pp. 75-81
JPRS 35,632

Radar with Programmed Electronic Scanning, by A. N. Antonov, 5 pp.
RUSSIAN, per, Vestnik Protivovozdushnoy Oborony, No 3, 1966, pp. 79-81.
JPRS 35511

Scientific
Electronics (Contd)

The Charging of Storage Batteries With Alternating-Polarity Current, by N. N. Maslov,
Yu. B. Losovskiy, 12 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVI, No 2,
1966.
JPRS 35,865

An Experience of the Adoption of Facsimile Systems
"Aragvi", by M. D. Kuznetsov, 6 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVI, No 2,
1966.
JPRS 35,865

Methods of Improving the Accuracy of Telegraph
Transmission, by P. A. Naumov, 5 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVI, No 2,
1966.
JPRS 35,865

Separate Reception of the Frequency-Telexigraphy
Signals in the Case of Selective Fadings on the
Short-Wave Radio Communication Links, by
A. M. Severin, L. A. Meshkovskaya, 9 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVI, No 2,
1966.
JPRS 35,865

Device for Automatic Control of the Magnitude of
the Threshold Contrast, by K. K. Polevitskiy,
2 pp.
RUSSIAN, Patent No. 160,735, Feb 26, 1964, 1 pp.
9700435
FTD-HT-66-80

Photoelectric Tracking Device, by G.P. Kayts,
Yu. V. Strel'nikov, 4 pp.
RUSSIAN, Patent No 160,777 (Appl. No.
818157/26-3, February 26, 1964,) 3 pp.
9700434
FTD-HT-66-81

Method of Short-Wave Radio Communication Through
the Polar Zone, by K.M. Kosikov, Yu.A. Chernov,
et al. 4 pp.
RUSSIAN, Patent No. 165,781 (Appl. No 812538/26-9,
Jan 4, 1963), 2 pp. 9700407
FTD-TT-65-819

An Experimental Investigation of the Point
Inductor Used for Strong-field Radiosondes,
by CHOU Shih-chein and JEN Li-hsin,
CHINESE, per, Ti-ch'iu Wu-li Hsueh-pao, Vol
XIV, No 1, 1965, pp 20-32. 9232801
Emmanuel College
Eun-65-46(a)

Scientific
Electronics (Contd)

Report on Compatibility Tests Between
American and French Telephone Multiplex
Systems, 32 pp.
FRENCH, rpt, Compt-Rendu des Essais
D'Opposabilite Entre Multiplex Telephoniques
Americains et Francais, 10 Nov 1965.
ACSI I-9572
ID 2204020266

Linearity of Photomultipliers: Effect of Dynode
Currents, by P. Moatti.
FRENCH, per, L'Onde Electrique, Vol 43, 1963,
pp 787-793.
*AEC LB/G/2396

Calculations of Mechanical Stresses in Coils of
Revolutions Used for the Production of Intense
Magnetic Fields, by B. Leon.
FRENCH, per, Revue Generale de l'Electricite,
Vol 73, 1964, pp 632-636.
*AEC 2382

Use of an Electronic Potentiostat for Metal-
lographic Attack, by J. Voeltzel and G. Henry,
et al, 17 p.
FRENCH, per, Revue de Metallurgie-Memoires
Scientifiques, Vol LXII, No 2, 1965, pp 129-134.
Dept of Comm
Natl Bu Stand

Microelectronics Based on Thin-Film Technics
by K. Krahl, et al, 14 pp.
GERMAN, per, Nachrichtentechnik, No 8,
1965, pp 287-292.
ACSI I-9294
ID 2204011066

Group Antennas - Design and Use, by
E. Spindler.
GERMAN, per, Radio und Fernsehen, No 3,
Feb 1966, pp 72-76.
*ACSI J-0117
ID 2204030966

Stability Criteria for Cellular Convection
of Finite Amplitude, by Friedrich Busse.
GERMAN, bk, das Stabilitatsverhalten der
Zellularkonvektion Bei Endlicher Amplitude,
1962, 61 pp.
*RAND

Modulation Technique in Laser Beam Telecommuni-
cations, by Gerhard Blechert.
GERMAN, per, VDI Zeitschrift, Vol 107, No 29,
1965, pp 1395-1398.
FTD-HT-66-346

Scientific Electronics (Contd)

Hazard to Transformers due to Internal Resonance Voltages, by G. Oberdorfer, F. Perner.
GERMAN, per, WZE - Wissenschaftliche Zeitschrift der Elektrotechnik, Vol VI, No 1/2, 1965, pp 1-20. Leipzig GDR.
*ACSI J-0074
ID 2204029966

On the Elimination of Resistance Overvoltage in Wire Electrodes by the Method of Distance Variation, by M. Breiter, Th. Guggenberger.
GERMAN, per, Zeitschrift fur Elektrochemie, Vol 60, 1956, pp 594-603. 9232744
AEC UCRL-tr-1306-L

Test Circuit for Two Wiper Set Selectors, 17 p.
GERMAN, pat, Patent No 966,990.
Dept of Comm
Patent Office

Unipolar Transistor With one or Several Controllable Current Paths on a Semiconductor Plate and Process for Producing the Same, by R. Gremmelmeier.
GERMAN, Patent 1,156,898 (7 November 1963).
Dept of Navy Tr 4725/APL/JHU T-1755

Communication Methods Using Codes Carrying Address and Content or Address Only, by E. Acs.
HUNGARIAN, per, Hiradatechnika, Vol XV, No 9, 1964, pp 225-234.
*ACSI J-0126
ID 2204031766

Electrical Research Laboratory Technical Report No 563, Chapters 2-5. 74 pp.
JAPANESE, per, Denshi Shikencho Kenkyu Hokoku, No 563, 1957, pp 21-71.
AEC ORNL-tr-460

Recombinational Radiation in GaSb, by I. Filinski, et al.
POLISH, per, Przeglad Elektroniki, Vol 6, No 1, 1965, pp 29-34.
*PTD-HT-66-353

Scientific Electronics (Contd)

Ferrite Devices for the 3-cm Microwave Band, by Stanislaw Stuchly, Andrzej Kraszewski.
POLISH, per, Przeglad Telekomunikacyjny, No 12, 1964, pp 341-349.
*PTD-HT-66-257

Satellite Radio Communications, by S. Dareckiego.
254pp.
POLISH, bk, Radiokomunikacja Satelitarna, 1964, 9700532-V
PTD-TT-65-109

Engineering

A Collection of Problems of Mechanics, by I. V. Meshcherskiy.
RUSSIAN, bk, 1965.
Pergamon Press

Concise Data on Electro-Engineering, by M. F. Satsukevich.
RUSSIAN, bk, 1962.
NLL R. 27183

Friction and Wear, by I. V. Kragelskiy.
RUSSIAN, bk, 1965.
Butterworths

The Measurement of Mechanical Parameters in Machines, by N. P. Rayevskiy.
RUSSIAN, bk, 1965.
Pergamon Press

Automatic Measuring Instruments, by P. P. Ornatskii.
RUSSIAN, bk, Avtomatycheskie Izmeritel'nye Pribory, 1965.
NLL R-38796

Prospects of Using Non-Metallic Reinforcements, by E. N. Smirnov.
RUSSIAN, per, Avtomobil'nye Dorogi, Vol 12, 1964, pp 18423.
NLL RTS 3127

Scientific
Engineering (Contd)

A Vertical Rotary Hydro-Turbine for the Saratovskaya Hydroelectric Power Station, by V. G. Kratsov and M. S. Medovaya, 5 pp. RUSSIAN, per, Elektricheskiye Stantsii, No 2, Feb 1966, pp. 40-41.
JPRS 35783

A Stator Winding Machine of the OS-627 Type, by I. Sh. Benderski, K. K. Popov. RUSSIAN, per, Elektrotehnika, No 5, 1964, pp 37-38.
NLL Ref: 3774.5 1965 (1266)

Problems in Unification of Designs and Parameters of Turbine and Hydraulic Generators, by M. P. Kostenko, V. P. Anempodistov, Ya. B. Danilevich, L. A. Sukhanov, 7 pp. RUSSIAN, per, Elektrotehnika, No 2, Feb 1966, pp. 1-3.
JPRS 35394

Modernizing of Heat-Powered Engineering Equipment in the Electric Power Stations of the Ukraine (According to Materials of a Thematic Exhibition, by A. S. Dupak, 7 pp. RUSSIAN, per, Energetika i Elektrifikatsiya No 1, Jan-Feb 1966, pp. 45-48.
JPRS 35710

New Components for Feed Pumps with Continuously Falling Characteristics, by S. S. Serikov, A. I. Timshin. RUSSIAN, per, Energomashinostroenie, Vol 11, No 2, 1965, pp 23-26.
NLL Ref: 9022.09 1965 (4116)

Theodolite for the Automatic Determination of Coordinates, by L. Pialovski, 7 pp. RUSSIAN, per, Geodesiya i Kartografiya, No 11, 1965, pp 17-24.
ACSI I-9736
ID 2204027566

Hermetically Sealed Machines and Apparatus in Chemical Engineering, by N. P. Chernousov. RUSSIAN, bk, Germeticheskie Khimiko-Tekhnologicheskie Mashiny i Apparaty, 1965, 352 pp.
NLL R. 39361

Scientific
Engineering (Contd)

Problems of Space Air Breathing Jet Engines, by Andrew Chramiec. RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Energetika i Transport, No 5, 1965, pp 159-172.
ATD Rpt 66-8

Balancing of Flexible Rotors, by M. Ya. Kushul', A. V. Shlyakhtin, 21 pp. RUSSIAN, per, Iz Akademii Nauk SSSR, Mekhanika Mashin, No 2, 1964, pp 61-77.
ACSI I-9305
ID 2204012066

Average and Finite Pulse Parameters in Pin Type Escapements, by E. V. Kul'kov, 11 pp. RUSSIAN, per, Iz VUZ Priborostroyeniye, No 2, 1961, Mar-Apr pp 101-110.
ACSI I-9184
ID 2204003866

The Durability of Large Size Components Made from Autoclaved Airentrained Concrete, by E. S. Silaenkov. RUSSIAN, bk, Kolgovetschnost Krupnorazmernykh Isdelii iz Avtoklavnykh Yachelistykh Betonov, 1964, 118 pp.
NLL R. 35235

Full Mechanization and Automation of Painting Work, by V. I. Zil'berg, et al. RUSSIAN, bk, Kompleksnaya Mekhanizatsiya i Avtomatzatsiya Ukrasochnykh Rabot, 1965, 148 pp.
NLL R. 39140

The Design and Construction of Non-Rigid Top-Surfaces for Motorways, by A. K. Birulye. RUSSIAN, bk, Konstruirovaniye i Raschet Nezhestkikh Odezhzh Avtomobilnykh Dorog, 1964, 166 pp.
NLL R. 35114

Research In the Department of Mechanics and Control Processes, by B. N. Petrov, 5 pp. RUSSIAN, up, Krasnaya Zvezda, 17 Mar 1966.
JPRS 35302

The Mechanization and Automation of General-Purpose Machine Tools, by A. N. Malov. RUSSIAN, bk, Mekhanizatsiya i Avtomatzatsiya Universalnykh Metallorezhushchikh Stankov, 1961, 597 pp.
NLL R. 35305

Scientific
Engineering (Contd)

Mechanics of Gyroscopic Systems,
by A. Yu. Ishlinsky, 303 pp.
RUSSIAN, bk, Mekhanika Giroskopicheskikh Sistem, Moscow, 1963.
CPSTI TT 65-50112
NASA TT F-286

Machine Tools with Programme Control,
by A. A. Spirodonov.
RUSSIAN, bk, Metallorezhushchie Stanki s Programmnym Upravleniem, 1964, 280 pp.
NLL R. 35135

Thermo Chemical Tests of Domestic
Turbine Driven Ships, by
A. Gol'denfon, R. Tarenenko,
RUSSIAN, per, Morskoy Flot, No 7, 1965,
pp 26-28.
Dept of Navy Tr 4626/ONI Tr 2159

Fatigue During Elastic-Plastic Deformation, by
R. M. Shneyderovich. 25 pp.
RUSSIAN, bk, Nauchno-Tekhnicheskoye Obshchestvo Mashinostroyatel'noy Promyshlennosti. Tsentral'nnoye Pravleniye. Voprosy Mekhanicheskoy Metallosti Moscow, 1964, pp 194-210. 9700759
FTD-TT-65-1413

New Techniques and Technology in Exploratory Drilling, by A. A. Pitade et al.
RUSSIAN, bk, Novaya Tekhnika i Tekhnologiya Razvedochnogo Bureniya, 1965, 128 pp.
NLL R. 39464

Advances in the Design and Construction
of Automobile Brakes, by Yu. B. Belen'kii.
RUSSIAN, bk, Novoe v Raschete i Konstruktsii Termozov Avtomobilei, 1965, 119 pp.
NLL R. 39056

New Ventilators for Mines and Pits,
by I. A. Raskin.
RUSSIAN, bk, Novye Ventilyatory Dlya Shakht i Rudnikov, 1965, 112 pp.
NLL R. 39135

Standard Calorimeter Apparatus UKG-1, by
K. K. Aglantsev, L. P. Kul'kova, et al.
RUSSIAN, rpt, Novyye Nauchno-issledovatel'skiye Raboty po Metrologii, 1964, pp 1-4. 9232794
AGC UCRL-tr-10015

Scientific
Engineering (Contd)

Fundamentals of Engineering Cybernetics,
by E. A. Yakubaitis, 236 pp.
RUSSIAN, bk, Osnovy Tekhnicheskoi Kibernetiki, Riga, 1962.
CPSTI TT 65-50116
NASA TT F-290

Instruments and Equipment for the Automation
of the Building Industry, by Z. N. Vodoshchenko.
RUSSIAN, bk, Pribory i Ustroistva Dlya Avtomatizatsii Predpriyatiy Stroitel'noi Industrii, 1965, 172 pp.
NLL R. 39069

The Use of Foam Concrete in Refrigeration
Plants, by P. I. Pirog.
RUSSIAN, bk, Primenenie Penobetona na Kholodilnikakh, 1964, 83 pp.
NLL R. 35254

Planning and Construction of Helicopter
Stations, by L. I. Goretskiy, 271 pp.
RUSSIAN, bk, Proyektirovaniye i Stroitel'stvo Vertoletnykh Stantsiy, 1964, pp. 1-263.
*JPRS 35863

Section on Computer Engineering, 64 pp.
RUSSIAN, bk, Sektsiya Elektronno-Vychislitel'noy Tekhniki, II Vsesoyuznaya Nauchnaya Sessiya, Povyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/DC-12413

Section on Telemechanics, 108 pp.
RUSSIAN, bk, Sektsiya Telemekhanika, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyashchennaya Dnyu Radio, Moscow, 1966.
*JPRS/DC-12413

Present-Day Gyroscopic Instruments and
Prospects for their Future Development,
by S. I. Antonov.
RUSSIAN, rpt, Sistemy Orientatsii i Navedeniya Letatel'nykh Apparatov, pp 128-137,
1965.
NASA TT F-10,050

Stresses in the Anchor Chain and the
Selection of an Electric Windlass Drive,
by S. A. Leybovich.
RUSSIAN, per, Sudostroenie, Vol 26, No 5,
1960, pp 18-.
NLL Ref: 9022.065 1965 (2171)

Scientific
Engineering (Contd)

Acoustic Calculation for the Exhaust System of a Marine Internal-Combustion Engine, by O. V. Petrova.
RUSSIAN, per, Sudostroenie, Vol 30, No 7, 1964, pp 33-.
NLL Ref 9022.065 1965 (2169)

On Some of the Regularities and Perspectives in the Development of Propulsion Plants for Icebreakers, by B. S. Yudovin, 8 pp.
RUSSIAN, per, Sudostroyeniye, No 8, August 1965, pp 25-29.
DIA IN 104-66

Determination of the Maximum Values of the Gravitational Drift and the Drift Due to Irregular Rigidity in Integrating Floated-Type Gyroscopes, by G. A. Slomyanskiy.
RUSSIAN, rpt, Tekhnologiya i Konstruirovaniye Giropristorov, 1964, pp 74-82.
NASA TT F-10, 104

Operation of an Integrating Floated-Type Gyroscope in the Capacity of an Angular-Motion Nonfollow-Up Pickup, by G. A. Slomyanskiy.
RUSSIAN, rpt, Tekhnologiya i Konstruirovaniye Giropristorov, 1964, pp 83-90.
NASA TT F-10, 105

On Question of the Elastic and Plastic Stress Condition of Blades Under Thermal Shock, by Ye. R. Plotkin.
RUSSIAN, rpt, Teplovyye Napryazheniya v Elementakh Konstruktsiy, Doklady Nauchnogo Soveshchaniya, Vypusk IV, pp 250-254.
*ACSI I-9674
ID 2204023766

Investigation of Thermal Fatigue of Blades and Disks of Centripetal Gas Turbines, by Ya. M. Gusak, G. I. Tsigel'nik.
RUSSIAN, rpt, Teplovyye Napryazheniya v Elementakh Konstruktsiy, doklady Nauchnogo Soveshchaniya, Vypusk IV, pp 287-297.
*ACSI I-9674
ID 2204023766

Scientific
Engineering (Contd)

Natural Testing of the Working Wheel of a Centripetal Gas Turbine Under Conditions of Repeated Starts, by K. M. Konovov.
RUSSIAN, rpt, Teplovyye Napryazheniya v Elementakh Konstruktsiy, Doklady Nauchnogo Soveshchaniya, Vypusk IV, pp 298-301.
*ACSI I-9674
ID 2204023766

Experience Gained in Use of Motor Vehicles for Repair of Transmission Lines, by M. N. Solovov.
RUSSIAN, per, Transportnoye Stroitel'stvo, March 1966, pp 10.
*ACSI J-0130
ID 2204031966

Hydrofoils, by V. I. Blumin.
RUSSIAN, bk, Transportnye Suda na Podvodnykh Krylyakh, 1964, 255 pp.
NLL R. 35237

Transactions of the Scientific and Technical Conference on the Damping of Vibrations (17-19 Dec 1958). 235 pp.
RUSSIAN, per, Trudy Nauchno-Tekhnicheskogo Soveshchaniya Po Dampfirovaniyu Kolebaniy, 1960, pp 1-180. 9700770-V
FTD-MT-64-S07

Transactions of the Central Scientific Research Institute of Geodesy, Aerophotography, and Cartography.
RUSSIAN, per, Trudy Tsentral'nogo Nauchno-Issledovatel'skogo Instituta Geodezii, Aeros'yemki i Kartografii, Vypusk 149, Issledovaniya po Aerofotografii, Moscow, 1964, 147 pp.
*ACSI I-9975
ID 2204009066

Improving the Airtightness of Stoppings by Means of a Colloidal Silicate Solution, by Yu. A. Miller, Yu. N. Lomaev.
RUSSIAN, per, Trudy VostNI, Vol 4, 1964, pp 198-206.
NLL Ref: 8313.4 1965 (5100)

Some Trends in Improvements of Turbo-Piston Engines by P. S. Morgulis, 24 pp.
RUSSIAN, rpt, Turboporshnevyye Dvigateli, Sbornik Statey, 1965, pp 50-62.
ACSI I-9677
ID 2204024066

Scientific
Engineering (Contd)

Trends of Improvement in Four-Cycle
Turbo-Piston Engines, by A. I. Meden, 24 pp.
RUSSIAN, rpt, Turboporoshnevyye Dvigateli, Sbornik
Statey, Moscow, 1965, pp 72-85.
ACSI T-9677
ID 2204024066

Supersonic Flow Around Ellipsoids, by A. I. Shvetz.
RUSSIAN, per, USSR Academy of Sciences Reports,
Mechanics & Machine Construction, No 4, 1964,
pp 29-32.
AEC SCL-t-66-250

Scientific and Technical Problems in the
Field of Electrical Power Engineering,
by N. P. Kostenko.
RUSSIAN, per, Vestnik Akademii Nauk SSSR,
No 11, 1964, pp 20-27.
NLL Shelf Mark R.0026

Technical Conference on Application of
Polymer Materials in Water Resources, 5 pp.
RUSSIAN, per, Vodosnabzheniye i Sanitarnaya
Tekhnika, No 1, 1966, pp. 37-39.
JPRS 35503

Scientific and Engineering Conference on Air
Conditioning in Industrial, Public and Resi-
dential Buildings, 6 pp.
RUSSIAN, per, Vodosnabzheniye i Sanitarnaya
Tekhnika, No 7, 1966, pp. 38-39.
JPRS 35503

On Rupture Following Creep,
by Yu. N. Rabotnov.
RUSSIAN, per, Zhurnal Prikladnoi Mekhaniki
i Tekhnicheskoi Fiziki, No 2, 1963,
pp 113-123.
NLL RTS 2899

Electrostatic Accelerators, by Yeh Ming-
han, Ch'en Chine-p'u, et al, 10 pp.
CHINESE, bk, Ching-tien Chia-su-ch'i,
Sept 1965, pp. i-xiv.
JPRS 35498

The Irregular Three-dimensional Density Inter-
face, by HSU Yun,
CHINESE, per, Ti-ch'iu Wu-li Hsueh-pao, Vol
XIV, No 1, 1965, pp 56-66. 9232801
Emmanuel College
Emm-65-46(a)

Scientific
Engineering (Contd)

Instrument Manufacture,
DUTCH, rpt, Annual Report of the Activities
of the Topographic Service for the Year 1963,
1963, pp 5-8.
AMS No GA902, N47, 1963

The Norwegians Think Really Automated Propul-
sion Machinery Controlled by an Electronic
Computer Will Soon Be Here, 4 p.
FRENCH, per, Journal de la Marine Marchande,
14 April 1966, pp 905-906.
Dept of Comm
Maritime Admin

Improvements in Dyeing Vats, by Charles Cal-
lebaut and Julian de Bliecqy, 6 p.
FRENCH, pat, Patent No 725,236.
DEPT of Comm
Patent Office

Improvements in Sponges, by Paul-Max Guggenheim,
3 p.
FRENCH, pat, Patent No 874,496.
Dept of Comm
Patent Office

Process and Devices for Reducing Wind Pressure
on Over-head Electric Lines and Similar Strut-
ures, 9 p.
FRENCH, pat, Patent No 877,588.
Dept of Comm
Patent Office

Polyurethane Foams, Their Preparation and Uses,
22 p.
FRENCH, pat, Patent No 1,161,239.
Dept of Comm
Patent Office

Pneumatic Conveying of Granulated Materials.
GERMAN, rpt,
RAE No 1125

Directivity Patterns of Plane Radiators,
Line Radiators With Nonuniform Amplitude
Distribution, and the Semicircular Line
by Kari Menges. 19 pp.
GERMAN, per, Akustische Zeitschrift,
Vol VI, 1941, pp 90-108.
*Dept of Navy/USRL

Scientific
Engineering (Contd)

Diesel Lift Truck, by H. Springer.
GERMAN, per, Hebezeuge und Fordermittel, No 2,
Feb 1966, pp 42-45.
*ACSI J-0119
ID 2204031166

A Large Capacity Tank in a Briefcase,
by G. Kurze, 5 pp.
GERMAN, per, Jugend und Technik, No 8,
Aug 1965, pp 745-746, 747.
ACSI I-9300
ID 2204011666

Low-Temperature Heat-Producing Reactors, by
P. Wenzel.
GERMAN, per, Kernenergie, Vol 7, 1964, pp 1-8.
*AEC ORNL-tr-1256

Control Elements and Their Functions for
the Two Column Jig-Boring Machine BKoZ
800 x 1250 with Optical Measuring System,
by W. Maeding, 5 pp.
GERMAN, per, Der Maschinenbau, Vol 15,
No 3, 1966, pp. 102-104.
JPRS 35527

The Problem of the Maximum Measurement Frequency
of Tangential Amplitude-Modulation Measurement
Transformers (Part II), 9 pp.
GERMAN, per, Messen Steuern-Regeln No 6,
1965, pp 204-207.
ACSI I-9295
ID 2204011066

Vibrations of Steam Turbine Rotors,
by A. Stodola.
GERMAN, per, Schweiz Bauzeitung, Vol LXIII,
No 18, 19, 1914, pp 251-255; 271-275.
NASA TT F-10,021

Method for the Consideration of the Influence of
Buildings on the Propagation of a Harmful Gas in
the Atmosphere, by Wolfgang Burger.
GERMAN, per, Staub, Vol 24, No 6, 1964, pp 223-
228. 9232777
AEC ORNL-tr-998

Correction of the Chimney Height Due to an In-
fluence of the Terrain, by Hermann Stumke.
GERMAN, per, Staub, Vol 24, No 12, 1964,
pp 525-528. 9232776
AEC ORNL-tr-997

Scientific
Engineering (Contd)

Road-Building Machinery at the Leipzig
Spring Fair 1965, by M. Feller.
GERMAN, per, Die Strasse, No 6, June 1965,
pp 280-291.
*ACSI J-0125
ID 2204031666

Guide Rails - Safety Belts for Roads,
by K. Idelberger.
GERMAN, per, Strassenbau, Vol 55, 1964,
pp 368-371.
BISI 4572

Thermodynamic Investigations of the Power/
Heat Coupling in the Gas Turbine Process, by
G. Guhn, 15 pp.
GERMAN, per, Die Technik, No 6, Jun 1964,
pp 413-419.
ACSI I-9194
ID 2204004866

Aerotriangulation Using the Stereometrograph
With Artificial Points of Minor Control
and Blockwise Compensation, by P. W. Zafiroff.
GERMAN, per, Vermessungstechnik,
Vol XIV, No 2, 1966, pp 47-52.
*ACSI J-0016
ID 2204029466

The Use of the Small Electronic Computer
Cellatron Ser-2-b in Surveying, by
A. Prautsch, W. Schwarz,
GERMAN, per, Vermessungstechnik, Vol XIV,
No 2, 1966, pp 55-57.
*ACSI J-0016
ID 2204029466

Fire Fighting Engines Equipped With Powder
Throwers, by Friedrich Emmrich,
GERMAN, per, VFDB Zeitschrift, Forschung
und Technik im Brandschutz, Vol XIV, No 4,
1965, pp 113-116.
*Dept of Navy/NRL

Controlled Circulation in Water Boiler
Construction, by H. Verkauf.
GERMAN, per, VGB Nutz, Vol 95, Apr. 1965,
pp 77-91.
BISI 4848

Steel Pile with Spreading Elements.
3 p.
GERMAN, pat, Patent No 874,126.
Dept of Comm
Patent Office

Scientific
Engineering (Contd)

Aluminum Cans for Preserved Food, by G. Barbieri S. Rosso, 5 pp.
ITALIAN, per, Industria Conserve, Vol XL, 1965, pp 314-315.
ACSI I-9304
ID 2204011966

Rapid Opening Envelope, by Giovanni Giaconia, 2 p.
ITALIAN, pat, Patent No 319,677.
Dept of Comm
Patent Office

Parallelepipedal Basket of Semirigid Plastic Which Can Be Made from a Flat Blank by Means of Folding and Subsequent Fastening of the Flaps forming the Walls, Particularly Adapted to Fruit Packing and to Storage or Shipping of Empties in a Limited Space, by Giulio Galloni and Andrea Casadio, 4 p.
ITALIAN, pat, Patent No 553,016.
Dept of Comm
Patent Office

Utility of Free-Running Models in Ship Manoeuvrability Researches, Parts I & II, by K. Nomoto, et al.
JAPANESE, per, Zosen Kyokai Rombunshu, 1961, Vol 109, pp 185-; Vol 110, pp 43-.
NLL Ref 9022.065 1965 (2159)

Analysis of Deep Reinforced Concrete Girders, by Finn Olav Buo
NORWEGIAN, per, Beregning Av Høye Bjelker, Skiver, Av Armet Betong Nordisk Betong, Vol 9, No 2, 1965, pp 135-154.
*FTD-HT-66-344

Experimental Investigations of the Buckling of a Hyperboloid Shell Subjected to an Axially Symmetric Load Acting on the Edges, by J. Wianecki.
POLISH, per, Rozprawy Inzynierskie, Vol 12, No 4, 1964, pp 513-532.
*FTD-HT-66-393

Scientific
Fuels & Propulsion

Physical and Chemical Fundamentals in the Use of Motor Jet and Rocket Fuels, by G. F. Bol'shakov, Ye. I. Gulin, et al, RUSSIAN, bk, Fiziko-Khimicheskiye Osnovy Primeneniya Mekhnykh Reaktivnykh i Raketynykh Topliv, 1965, pp 3-270.
*JPRS/DC 12381

Possibility of the Investigation of the Kinetics of Oil Solidification by the Ultrasonic Method, by V.F. Dudin, Zh. I. Shaulov, et al. 9 pp.
RUSSIAN, per, Khimiya i Tekhnologiya Topliv i Masel, No 8, 1964, pp 58-60. 9700753
FTD-TT-65-1484

Some Problems of Fuel and Power, by Z. F. Chukhanov.
RUSSIAN, bk, Nekotorye Problemy Topliva i Energetiki, Chapt. II and IV, 1961, pp 25-40, 149-254.
NLL Ref: 8313.4 1965 (S144)

Necessary Improvement of Variety and Quality of Liquid Fuels and Lubricants in Czechoslovakia to 1970, by V. Stepina, 14 pp.
SLOVAK, per, Ropa a uhlie, No 1, 1966, pp. 17-20.
JPRS 35424

Materials & Metallurgy

Controlling the Current for Electrochemical Processing of Metals, by N. K. Korolenko.
RUSSIAN, bk, 1964, 2nd ed.
NLL R. 34891

Economy of Electrical Energy in the Electrolysis of Zinc and Copper, by A. V. Troyanobskii.
RUSSIAN, bk
NLL R. 12884

Electrochemistry of Dissolved Salts, by Ya. K. Delimarskiy, B. F. Markov.
RUSSIAN, bk,
NLL R. 20365

Scientific Materials & Metallurgy (Contd.)

Structural Diagram of Niobium-Nickel System, by V.N. Svechnikov, V.M. Pan, et al. 15 pp.
RUSSIAN, per, Akad. Nauk UkrSSR, Institut Metallofiziki, Sbornik Nauchnykh Rabot, No 19, 1964, pp 196-205. 6799437
FTD-TT-65-1489

New Reinforcing Steels in Czechoslovakia, by A. Ya. Brodskii.
RUSSIAN, per, Beton i Zhelezobeton, Vol 2, 1964, pp 92-94.
NLL RTS 2971

The Cause of Flocculation in Producing Paper by a Dry Method, by A. E. Gushchin.
RUSSIAN, per, Kuzmazhnaya Promyshlennost, No 5, 1964, pp 8-9.
NLL RTS 2888

The Dynamics of Aerosols in Mine Workings, by A. S. Burchakov and E. M. Moskalenko, 57 pp.
RUSSIAN, bk, Dinamika aerozoley v gornykh vyrabotkakh, 1965, pp. 1-68.
JPRS 35924

Economics of Precision Casting in Engineering, by Ya. A. Golbin.
RUSSIAN, bk, Ekonomicheskaya Effektivnost Tochnogo Litya v Mashinostroenii, 1964, 161 p.
NLL R. 35011

Polymers With Properties of Metals.
RUSSIAN, np. Ekonomicheskaya Gazeta, 18 Aug 1965, p 38, Col 5.
*FTD-HT-66-342

Electric Cracking of Liquid Organic Raw Materials, by N. S. Pechuro and A. N. Merkur'yev, 14 pp.
RUSSIAN, per, Elektronnaya Obrabotka Materialov, No 2, 1965.
JPRS 35414

Structural Changes of Metal After Electric-Spark Alloying, by Yu. N. Petrov, I. I. Safronov, and Yu. P. Kaloglu, 12 pp.
RUSSIAN, per, Elektronnaya Obrabotka Materialov, No 2, 1965.
JPRS 35414

Scientific Materials & Metallurgy (Contd.)

The Influence of Hardness and Microstructure on the Abrasion and Cavitation Resistance of Steel, by A. F. Shchelkanyv.
RUSSIAN, per, Energomashinostroenie, Vol 11, No 1, 1965, pp 32-36.
NLL Ref: 9022.09 1965 (4100)

The Methodology of Investigating Evaporation Cooling With Porous Metallic Bodies, by A. V. Lykov.
RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, Vol 7, No 2, 1964, pp 120-124.
*FTD-HT-66-307

Determination of Small Amounts of Iridium, by N.K. Pshenitsyn, I. V. Prokof'yeva.
RUSSIAN, per, Izv Ak Nauk SSSR, Sektora Platiny i Drugikh Blagorod Metal, Inst Obshch i Neorg Khim imeni N. S. Kurnakova, Vol 28, 1954, pp 229-234. 9232754
AEC UCRL-tr-10,010

Coefficient of Resistance to Motion of Burning Particles, by V. N. Basov.
V. A. Popov.
RUSSIAN, per, Izv Ak Nauk SSSR, OTN, No 8, 1958, pp 12-14.
NASA TT F-10,033

A Theory of Metal Creep with Account Taken of Work Hardening, by I. I. Bulgakov.
RUSSIAN, per, Izv. Ak. Nauk SSSR, OTN Mekhanika i Mashinostroenie, No 4, 1964, pp 87-89.
NLL RTS 2920

Application of Potentiometric Titration to the Quantitative Determination of Iridium and Osmium, by D. I. Ryabchikov.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Sektora Platiny, No 22, 1948, pp 35-42.
9232725
AEC UCRL-tr-10,013

On the Solution of the Plane Contact Problem in Creep Theory in the Presence of Frictional Forces, by T. Shirinkulov.
RUSSIAN, per, Izv Ak. Nauk Uzbekskoi SSR, Seriya Tekhnicheskikh Nauk, No 5, 1963, pp 35-45.
NLL RIS 3119

Scientific
Materials & Metallurgy (Contd)

The Problem of Continuous Determination of the Carbon Content in the Bath of an Open-Hearth Furnace, by P. M. Maslovskii, et al. RUSSIAN, per, Izv. VUZ-Chern. Met., No 6, 1965, pp 180-184.
BISI 4739

Production of Three-Layer Steel, by I. G. Lavrent'ev. RUSSIAN, per, Izv. VUZ Chern. Met., No 8, 1965, pp 38-40.
*BISI 4910

Volatileization of Alkali Metal Compounds in the Mineral Residue of Combustion Shales, by K. P. Taal. RUSSIAN, per, Izv. VUZ Energetika, Vol 7, No 10, 1964, pp 58-63.
NLL Ref: 9022.05 1965 (4054)

Influence of High-cooling Speed on the Structure and Properties of Aluminum Compounds, by N.I. Varich, K.Ye. Kolesnichenko. RUSSIAN, per, Izv. Vyssh. Ucheb. Zaved. Tsvetn. Met., Vol 3, No 4, 1960, pp 131-136. 9232892 AEC SC-T-66-0725

Heat of Formation of Lower Carbides of Vanadium, by N.M. Volkova, P.V. Geld. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavodov, Tsvetnaya Metallurgiya, Vol 8, No 3, 1965, pp 77-81. 9232862 AEC LA-tr-66-20

Measuring Stresses in Metals by the Eddy-Current Method, by M. M. Shel'. 9 pp. RUSSIAN, per, Khimicheskoye i Neftyanoye Mashinostroyeniye, No 4, 1964, pp 35-37. 9700435 PID-TI-65-1892

On the Calculation and Design of Dies With Hard Alloy Inserts for Cold Pressing, by V. A. Mishunin. RUSSIAN, per, Kuznechno-Shtampovochnoye Pravitvo, No 1, 1965, pp 5-9.
*PID-TI-65-398

Surface-Active Properties and the Washing Ability of the Solutions of Various Synthetic Washing Materials and of Detergents Prepared From them, by F. V. Nevolin, et al, 6 pp. RUSSIAN, per, Maslovskoye-Zhirovaya Promyshlennost', No 11, 1964, pp 26-29.
NEST I-3313 ID 2204012866

Scientific
Materials & Metallurgy (Contd)

The Value of the Self-Diffusion Parameters of Zirconium, by G. B. Federov. RUSSIAN, per, Metallurg. i Metallov. Chist. Metall., Vol 4, 1963, pp 34-40.
NLL Ref: 9091.9F 1965 (AERE-Trans-1030)

The Radiation-Catalytic Conversion of Cyclohexane, by G.M. Zhabrova, V.B. Kazanskiy, et al. RUSSIAN, per, Neftekhimiya, Vol 4, No 5, 1964, pp 753-762. 9232865 AEC ORNL-tr-1216

New Methods of Analysis in Metallurgical and Metal Processing Factories, RUSSIAN, bk, Novye Metody Analiza na Metallurgicheskikh i Metalloobrabatyvaiushchikh Zavodakh, 1964, 191 pp.
NLL R. 35119

Nature of the MgO and Al₂O₃ Conductivity, by V. P. Luzgin, et al. RUSSIAN, per, Ogneupory, Vol XXX, No 4, 1955, pp 42-44.
*NASA TT F-10,093

Low Frequency Vibrations in the Spectra of Parafins, by U. A. Zirnitis. RUSSIAN, per, Opt. Spectros. Akad. Nauk SSSR, Otd. Fiz. Mat. Nauk, Sb. Statei, Vol 2, 1963, pp 153-154.
*AEC EDC 6/20/66

Chemical Reactions on the Surfaces of Glass Fibers Used in Glass-Reinforced Plastics, by Ye. B. Trostyanskaya, et al. RUSSIAN, per, Plasticheskiye Massy, No 11, 1965, pp 67-69.
*NASA TT F-10,099

Determination of the Surface State of Metal Powder Particles by Scattering of Light, by A. I. Raychenko. RUSSIAN, per, Porosh Metallurg., Vol IX, (33) 1965, pp 69-75.
*NASA TT F-10,086

Investigations of Scale-Stability of Alloys of Zirconium Boride With Molybdenum Disilicide, by M. A. Kuzenkova, P. S. Kislyy. RUSSIAN, per, Poroshkovaya Met., No 10(34), 1965, pp 75-79.
NASA TT F-10,044

Scientific
Materials & Metallurgy (Contd)

Porous Materials From Carbides and Borides of Transition Metals, by V. M. Sleptsov, et al.
RUSSIAN, per, Poroshkov, Met., No 10, (34),
1965, pp 85-90.
NASA TT F-10.045

Anticorrosive Plastic Coatings, by V. G. Samsonov, V. G. Kharakhash et al, 60 pp.
RUSSIAN, bklet, Protivokorrozionnye Plast-massovyye Pokrytiya, 1965, pp. 4-91.
JPRS 35452

Some Prospects in the Use of a Pulsed Method for Determining Elastic Constants, by L. M. Mukhin.
RUSSIAN, per, Sb. Primeneniye Ul'traakust. K Issled. Veshchestva, No 18.M, 1963, pp 249-252.
*FTD-HT-66-406

Calculating the Thermodynamic Functions of Gaseous Uranium, Plutonium and Their Ions up to 20,000°K, by L.V. Gurvich, V.S. Yugman. 11 pp
RUSSIAN, rpt, Simpozium Po Termodynamike s Osobym Uporom Na Yadernyye Materialy i Perenos Atomov v Tverdykh Telakh, Vienna 22-27 Jul 1965, 12 pp.
9700755
FTD-TT-65-1480

Beryllium Oxide Systems and Their Use in Technology, by P. P. Budnikov, R. A. Belyaev.
RUSSIAN, rpt, Sistemy Okisib Berilliya i ikh Ispol'zovaniye v Tekhnike.
Dept of Navy Tr 4624/CNI Tr 2157

Improving Pipe Production Methods, by I. S. Zhordaniya, B. A. Svetlitskiy.
RUSSIAN, bk, Sovremenstvovanie Proizvodstva Trub, 1965, 124 pp.
NLL R. 39060

A New Stage in Ferrous Metallurgy, by I. P. Kazanets, 11 pp.
RUSSIAN, per, Stal', No 1, 1966, pp. 1-5.
JPRS 35393

Tasks of the Scientific and Technical Society of Ferrous Metallurgy, by M. A. Pertsev, 10 pp.
RUSSIAN, per, Stal', No 2, 1966, pp. 97-100.
JPRS 35393

Scientific
Materials & Metallurgy (Contd)

Temperature Effect of Mechanical Properties and Creep-Stability of Some Binary Alloys of Uranium With Zirconium, Niobium and Molybdenum, by V.K. Grigorovich, N.E. Sladkova. 13 pp.
RUSSIAN, bk, Stroenie i Svoistva Splavov Urana, Turiya i Tsirkonilya, Moscow, 1963 pp 138-147
AEC WADD-Tr-6

Industrial Fabrics and Their Uses, by Z. M. Kozyreva, et al.
RUSSIAN, bk, Tekhnicheskie Tkani i ikh Primenenie.
NLL R. 39371

Theory and Practice of Chromium Electro-plating, by A. T. Vagramyan, N. T. Kudryavtsev.
RUSSIAN, bk, Teoriya i Praktika Elektrolicheskogo Khromirovaniya, Moscow, 1957.
CFSTI TT 65-50001

Investigation of the Corrosion Behavior of Zirconium and Zirconium Alloys in Water and Steam at High Temperatures, by V. S. Yemel'yanov
RUSSIAN, rpt, Tret'ya Mezhdunarodnaya Konferentsiya Organizatsii Ob'yedinennykh Natsiy po Ispol'zovaniyu Atomnoy Energii v Mirnykh Tselyakh, Paper #341, 1964, pp 1-18.
*FTD-MT-66-59

Extrusion Steel and Field of Their Application, by L. A. Poznyak, A.M. Rogalev. 14 pp.
RUSSIAN, per, Trudy Nauchnyye Eksperimental'nyye Nauchno-Issledovatel'skiy Institut Kuznechno-Pressovogo Mashinostroyeniya, No 9, 1964, pp 5-14.
9700765
FTD-TT-65-1417

The Welding of Teflon and Other Organic Materials by the Localized Action of Neutron, Irradiation, by I. M. Barkalov, Gold'danskiy, et al, 8 pp.
RUSSIAN, per, Trudy II Vsesoyuznogo Soveshchaniya Po Radiatsionnoi Khimii, 1962,
ACSI I-9169
ID 2204002366

The Explosion Proof Properties of Electrical Equipment Enclosures Fabricated From Plastics, by A. A. Kaimakov.
RUSSIAN, per, Trudy VostNII, Vol 4, 1964, pp 214-224.
NLL Ref: 8313.4 1965 (5099)

Scientific
Materials & Metallurgy (Contd)

Colour Metallography in Visible and Ultra-Violet Rays, by L. P. Zaitseva, T. G. Porokhova.
RUSSIAN, bk, Tsvetnaya Metallografiya v Vidimykh i Ultrafioletovykh Luchakh, 1964, 170 pp.
NLL R. 35282

Increasing the Fatigue Strength of Spot-Welded Aluminum and Titanium Alloy Joints, by V. M. Sagalevich and B. B. Zolotarev, 7 pp.
RUSSIAN, per, Tsvetnyye Metally, No 11, Nov 1965, pp. 106-111.
JPRS 35419

Sulfuric Acid Pickling of Titanium Alloys, by S. A. Kushakevich and Z. K. Khanina, 6 pp.
RUSSIAN, per, Tsvetnyye Metally, No 12, Dec 1965, pp. 86-89.
JPRS 35419

High-Strength Titanium Alloys, by V. N. Moiseyev, S. G. Glazunov, B. M. Mikhaylov, 5 pp.
RUSSIAN, per, Tsvetnyye Metally, No 2, Feb 1966, pp. 80-82.
JPRS 35419

Protective Coatings for the Interior of Pipelines, by A. A. Gonik, V. V. Knyazev.
RUSSIAN, bk, Vnutrennaya Izolyatsiya Truboprovodov, 1965, 76 pp.
NLL R. 39085

Improving the Use of Ferrous Metals, by M. Gorshunov and D. Popov, 12 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 1, Jan 1966, pp. 66-75.
JPRS 35500

Some Problems of Rare Earths Catalysis, by Pieng Pi-hsien, 19 pp.
CHINESE, per, Huo-hsueh T'ung-pao, No 11, 14 Nov 1966, pp. 1-8.
JPRS 35594

A Study of the Magnetic Properties and Ferromagnetic Resonance of the Yttrium-Lanthanum Iron Garnet System, by Li Gou-Dong, et al, 23 p.
CHINESE, per, Wu-li Hsueh-pao, Vol XIX, No 1, 1963, pp 1-10. 9700540
ARCR EMM-65-11

Scientific
Materials & Metallurgy (Contd)

Some Investigations on Titanium-Containing and Higher Cobalt Content Alnico Permanent Magnet Alloy, by Tseng Hsun-l, Cheng Ch'ang-hua, Fu Yao-hsien and Wang Shao-po, 18 pp.
CHINESE, per, Wu-li Hsueh-pao, Vol XX, No 10, Oct 1964, pp 1027-1036
JPRS 35228

The Basic Law on Mining, 46 pp.
CROATIAN, per, Sluzbeni List SFRJ, No 9, 2 Mar 1966, pp. 145-159.
JPRS 35824

Plastic Lubricants Today, by X. Liebl.
CZECH, per, Ropa A Uhlie, Vol VII, (15) No 9, Sept 1965, pp 257-259.
*ACSI I-9996
ID 2204029066

Plastic Lubricants from the Viewpoint of Assortment, by E. Safr.
CZECH, per, Ropa A Uhlie, Vol VII, (15) No 9, Sept 1965, pp 260-261.
*ACSI I-9996
ID 2204029066

A Multigrade Complex Plastic Lubricant, by V. Suchmek, X. Liebl.
CZECH, per, Ropa A Uhlie, Vol VII, (15), No 9, Sept 1965, pp 262-265.
*ACSI I-9996
ID 2204029066

Performance Tests of a New Multigrade Plastic Lubricant, by C. Nahlovskiy.
CZECH, per, Ropa A Uhlie, Vol VII, (15), No 9, Sept 1965, pp 266-267.
*ACSI I-9996
ID 2204029066

Derivatographic Study of Plastic Lubricants, by E. Vamos, T. Flora.
CZECH, per, Ropa A Uhlie, Vol VII, (15), No 9, Sept 1965, pp 268-272.
*ACSI I-9996
ID 2204029066

Investigating the Mechanical Stability of Plastic Lubricants, by E. Boeck.
CZECH, per, Ropa A Uhlie, Vol VII, (15) No 9, Sept 1965, pp 274-275.
*ACSI I-9996
ID 2204029066

Scientific
Materials & Metallurgy (Contd)

The Mechanical Stability of Plastic Lubricants, by J. Cizek.
CZECH, per, Ropa A Uhlie, Vol VII, (15), No 9, Sept 1965, pp 276-280.
*ACSI I-9996
ID 2204029066

Miscibility of Plastic Lubricants, by F. Mitterhauser.
CZECH, per, Ropa A Uhlie, Vol VII, (15), No 9, Sept, 1965, pp 281-287.
*ACSI I-9996
ID 2204029066

Blackening Research- 7 + 8,
DUTCH, per, Gieterij-Centrum Berichten, Vol 13, Sept-Oct, 1965, pp 50-52, Nov-Dec, 1965, pp 71-73.
BISI 4516

Behavior of Concrete at Temperature: First Results of Studies and Tests on Use of Pre-stressed Concrete in Caissons for a Nuclear Reactor, by Buvat.
FRENCH, rpt, Annales de l'Institut Technique du Batiment et des Travaux Publics No 214, 1965, pp 1280-1289.
*AEC ORNL-Tr-1227
21 May 66

Rimming and Semi-Killed Steels, by J. Duflot.
FRENCH, per, CESSID, Coulees de l'Acier, Cahier I, pp 1-49.
BISI 4608

Observation, by High-voltage Microscopy, of Metallic Samples Progressively Thinned by Ionic Bombardment, by G. Dupuy and P. Perrier, 10 p.
FRENCH, per, Comptes Rendus, Vol CCLXI, Nov 29 1965, pp 4649-4651.
Dept of Comm
Nat'l Bu Stand

High Tensile Steels and Their Application in Watchmaking and Micromechanics, by G. Remy and M. Massin, FRENCH, per, Congres International De Chronometrie, Vol II, 1964, pp 917-931.
*FTD-MT-66-347

Polygonization of Very Pure Uranium Between 150° and 300°C, by G. Clettes, J.C. Jomset, et al. 15 pp.
FRENCH, per, Journal of Nucl. Mater., Vol 12, 1964, pp 340-344.
AEC-tr-6560

Scientific
Materials & Metallurgy (Contd)

The Performance of Austenitic Steels and Welded Joints Between 700°C and 1200°C, by S. Sadowski.
FRENCH, per, Journal de la Soudure, Sept. 10, 1965, pp 311-324.
BISI 4745

Reduced Models of the Resistance of Pre-stressed Concrete Caissons in the G₂ and G₃ Reactors, by N. Beaumoint.
FRENCH, rpt, Modeles Reduits de Resistance des Caissons en Beton Precontraint Des Piles G₂ et G₃, Rilem No. 10, 1961, pp 25-34.
*AEC ORNL-Tr-1226
21 May 1966

Comparison of Operating Results of an 1150 mm Bloom Mill Controlled Manually and Semi-Automatically, by A. Damthine, R. Pirlet.
FRENCH, rpt, Paper E-2 presented at the International Conference on Automation in Steelmaking, Amsterdam & Dusseldorf, 29-31 March and 1-3 April, 1965.
BISI 4693

Results Obtained by the Aerofall Testing Station in France on the Treatment of Ores with a View to Their Further Processing, by A. Temoin.
FRENCH, per, Rev. Ind. Minerale, Vol 47, June 1965, pp 405-418.
BISI 4705

Influence of Vacuum Melting on the Hot-Shortness of a Tungsten Steel for Working at Elevated Temperature, by W. Peter.
FRENCH, per, Rev. Met., Vol 60, Apr. 1963, pp 359-365.
*BISI 4898

Diffusion in Cast Steels after Homogenisation Treatments, by M. T. Leger, P. Detrez.
FRENCH, per, Rev. Met., Vol 62, No 9, Sept. 1965, pp 767-783.
BISI 4606

General Considerations of Prepared, Unformed Refractories, by P. Lapoujade.
FRENCH, per, Rev. Met., Vol 62, Oct. 1965, pp 945-952.
BISI 4797

Scientific Materials & Metallurgy (Contd)

Users' Problems with Reheating Furnace Refractories, by M. Vallee.
FRENCH, per, Rev. Met., Vol 62, Dec. 1965,
pp 1211-1218.
BISI 4798

Analysis of Sheet Texture in Relation to Stamping Behaviour, by M. Angeli et al.
FRENCH, per, Rev. Met. Mem. Sci., Vol 59,
No 6, 1962, pp 441-453.
*BISI 4909

Diffusion of Sulphur and Phosphorous in the Solid State, by G. Seibel.
FRENCH, per, Rev. Met. Mem. Sci., Vol 61,
June 1964, pp 431-433.
BISI 4523

Contribution to the Study of the Delta - Gamma Transformation of Plutonium, by B. Hochedi,
A. Tanon, et al.
FRENCH, per, Revue de Metallurgie. Memoires Scientifiques, No 62, 1965, pp 683-690. 9232729
AEC LA-tr-66-13

Forgeability, by P. Blain.
FRENCH, per, Rev. Met., Vol 62, Oct. 1965,
pp 881-890.
BISI 4746

General Considerations of Prepared, Unformed Refractories, by P. Dapoujade.
FRENCH, per, Rev. Met., Vol 62, 1965,
pp 945-952.
BISI 4796

Application of Abrasive Electrolytic Polishing to Special Cases: Sections of Metallographic Samples Bearing Thin Hard Coatings or With Oxide Films, by Ch. Buckle and R. Pichoir, 20 p.
FRENCH, per, Revue de Metallurgie-Memoires Scientifiques, Vol LXXI, No 10, 1965, pp 767-779.
Dept of Comm
Nat'l Bu Stand

The Equilibrium Between Pig Iron Melts and Lime-Silica-Alumina Slages During the Progress of Carbon Reaction, by W. Oelzen, H. G. Schubert.
GERMAN, per, Arch. Eisenh., Vol 35, Nov. 1964, pp 1039-1057.
BISI 4768

Scientific Materials & Metallurgy (Contd)

Investigation of the Rimming Action and the Solidification of Effervescent Steel, by E. Schurmann et al.
GERMAN, per, Arch. Eisenh., Vol 36, Sept. 1965, pp 619-631.
BISI 4579

The Production of Hot-Rolled Wide Strip, by H. Winterkamp.
GERMAN, per, Bander Bleche, 1960, pp 3-8.
BISI 4489

The Calculation and Design of Pass Sequences for Rolling Mass-Produced Steels in Continuous Small Section Mills, by E. Schneider.
GERMAN, per, Bander Bleche, Vol 6, Apr. 1965, pp 177-184.
BISI 4601

Furnace Systems for Refuse Incineration, by R. Rasch.
GERMAN, per, Brennstoff Warme Kraft, Vol 16, Aug. 1964, pp 376-382.
BISI 4814

Effect of Tool Angle on the Life and Tool Wear of High Speed Steel Turning Tools During the Turning of Austenitic and Ferritic Steels, by O. Mulders, R. Meyer-Rhotert.
GERMAN, per, DEW Techn. Ber., Vol 5, 1965, pp 125-128.
BISI 4795

Behaviour of Concrete Pre-Stressing Wires Under Tensile Loading, by R. de Strycker.
GERMAN, per, Draht, Vol 16, Aug. 1965, pp 505-514.
BISI 4732

Electrochemical Investigations of Gas Flushed Electrodes in Alkali Carbonate Melts, by P. Drossbach, D. Sauermann.
GERMAN, per, Electrochimica Acta, Vol 9, 1964, pp 1573-1590. 9232804
AEC ORNL-tr-1217

Natural Frequencies of a Multi-Shaft Torsion System Taking into Account the Mass of the Torsion Shafts, by K. Liebold.
GERMAN, per, Freiburger Forschungen, Bd 1, 1961, pp 5-17.
BISI 4392

Scientific Materials & Metallurgy (Contd)

Iron Ore Mining in Liberia, by Willi Schulze,
20 p.
GERMAN, per, Geographical Review, Vol XVII,
No 11, 1965.
AHS No G1, G42, Vol XVII, No 11

Annual Review of Moulding Materials
(2nd Continuation) Part 3, by W. Weis.
GERMAN, per, Giesserei, Vol 52, July 22, 1965,
pp 479-483.
BISI 4885

The Basic Melting Process in the Hot Blast
Cupola, by B. S. Mil'man, N. K. Blozhko.
GERMAN, per, Giessereitechnik, Vol 11, No 5,
1965, pp 143-147.
BISI 4774

Differences in Bending Fatigue Strength
in Case-Hardened Specimens Caused by Stress-
Relieving, by H. Brugger.
GERMAN, per, Harterei Techn. Mitt., Vol 19,
July 1964, pp 100-114.
BISI 4821

Coating Plant for Wide Steel Strip,
by L. Walter.
GERMAN, per, Industrie Lackierbetrieb,
Vol 34, March 1966, pp 98-100.
*BISI 4911

The Structure of Polyurethane Foams by R. Merten,
G. Braum, et al.
GERMAN, per, Kunststoffe, Vol 55, No 4, 1965,
pp 249-254.
AEC SCL-t-65-285

Contribution to the Anodic Polishing of
Austenitic Steel, by H. Spahn.
GERMAN, per, Metalloberfläche, Vol 20,
No 2, 1966, pp 91-99.
*BISI MFA/TS 821

Use of Hydrodynamic Lubrication in Wire
Drawing, by G. Juretschek.
GERMAN, per, Neue Hütte, Vol 10, No 4, 1965,
pp 193-199.
*BISI 4903

The Production and Investigation of Titanium -
Tritium Targets, by Hans Fabian.
GERMAN, rpt, Oester. Akad. Wiss. Math-Naturw.
Kl. Ans., No 570a, 1964. 38 pp.
ABC NP-tr-1198

Scientific Materials & Metallurgy (Contd)

New Methods of Monitoring and Controlling
the Metallurgical Process in Oxygen Steel
Works, by J. Maatsch et al.
GERMAN, rpt, Paper C-8 presented at International
Conference on Automation in Steel-
making, Amsterdam & Dusseldorf, 29-31 March,
1-3 April, 1965.
BISI 4687

The Design of Roll Passes for Equal and
Unequal Angle Sections, by U. Suppo.
GERMAN, rpt, Paper Presented at 28th
Conference of the Association of European
Roll Designers, Duisburg, 25.4.64.
BISI 4832

The Present State of Knowledge of Roll
Shape for Strip Mills, by P. Funke.
GERMAN, rpt, Paper Presented at 28th Conference
of the Association of European
Roll Designers, Duisburg, 25.4.64.
BISI 4830

The Reactivity of Aluminum Oxide in Spinel
Development, by Jan Hlavac. 11 pp.
GERMAN, rpt, Proceedings of the 4th International
Symposium on the Reactivity of Solids,
1960, pp 129-136.
ACSI I-9329
ID 2204014466

Thermochemistry of Alloys, by A. Schneider, et al.
GERMAN, per, Pure Applied Chemistry, Vol 2, 1961,
pp 13-16.
*AEC
EDC 1 Aug 66

New Steel Melting Practice Using Oil-
Oxygen Burners, by M. Wahlster, et al.
GERMAN, per, Rheinstahl Technik, Vol 3,
No 3, 1965, pp 251-264.
BISI 4751

Differences Between the Mechanical Properties
of Cast Steel and Hot-Worked Steel,
by H. Siepmann, F. W. Hauptvogel.
GERMAN, per, Rheinstahl Technik, Vol 3,
No 3, 1965, pp 270-285.
BISI 4752

The Selection and Operation of Manual
Lubrication Equipment, by E. Gulker.
GERMAN, per, Schmiertechnik, No 1, 1964,
pp 24-30.
BISI 4616

Scientific
Materials & Metallurgy (Contd)

Oil Mist Droplet Lubrication on a High Speed Rod Mill, by B. Kortzfleisch.
GERMAN, per, Schmiertechnik, Vol 12, May June, 1965, pp 145-147.

*BISI 4897

The Production of High-Duty Forgings in Austria, by R. Standl, M. Valencak.
GERMAN, per, Stahl Eisen, Vol 84, May 21, 1964, pp 667-673.

BISI 4769

The Reduction of Silica and the Desulphurisation of Carbon Saturated Iron Under Blast Furnace Conditions, by M. G. Frohberg.
GERMAN, per, Stahl Eisen, Vol 85, Jan 28, 1965, pp 77-81.

BISI 4723

Latest Development in the Production of Sponge Iron in the Rotary Furnace, by F. Lucke et al.
GERMAN, per, Stahl Eisen, Vol 85, Nov 4, 1965, pp 1371-1378.

BISI 4701

Determination of Capacity and Costs on Billet Grinders by Statistical Methods, by M. Menzer, V. Steinecke.
GERMAN, per, Stahl Eisen, Vol 85, Nov. 4, 1965, pp 1403-1412.

BISI 4730

Conversion of a Melting Shop and Hot Sheet Mill and also a Foundry to Liquified Petroleum Gas - III, by C. Reisinger.
GERMAN, per, Stahl Eisen, Vol 85, Nov. 4, 1965, pp 1420-1423.

BISI 4702 - III

Conversion of a Heat Treatment Shop to Liquified Petroleum Gas - II, by R. Schneider.
GERMAN, per, Stahl Eisen, Vol 85, 1965, pp 1417-1419.

BISI 4702-II

Dust Measurement in the Waste Gas of a Basic (THOMAS) Converter, by G. Schnurch, N. Petrusch.
GERMAN, per, Stahl Eisen, Vol 85, Dec. 2, 1965, pp 1595-1600.

BISI 4668

Scientific
Materials & Metallurgy (Contd)

The System Hydrochloric Acid - Ferrous Chloride - Water and the Behaviour of Hot-Rolled Steel Strip Pickled in Such Solutions, by B. Meuthen et al.
GERMAN, per, Stahl Eisen, Vol 85, Dec. 30, 1965, pp 1722-1729.

BISI 4766

Control of Material Flow and Optimum Production Control Allocation of Slabs by use of an Electronic Computer, by H. Pelzer, K. A. Ruth.
GERMAN, per, Stahl Eisen, Vol 86, Jan 27, 1966, pp 100-106.

BISI 4776

Changing a Steelworks to the Use of Natural Gas with Particular Consideration of the Operational Measures to be Taken, by H. Klammer.
GERMAN, per, Stahl Eisen, Vol 86, Feb. 10, 1966, pp 142-149.

*BISI 4904

Studies on the Rolling Practice of a Four-Stand Cold Rolling Tandem Mill Train, by P. Funke.
GERMAN, per, Stahl Eisen, Vol 86, Mar. 10, 1966, pp 245-261.

*BISI 4900

Determination of the Torque in Rolling Strip with Regard to Roll, by F. W. Hollman, A. Troost.
GERMAN, per, Stahl Eisen, Vol 86, Mar. 10, 1966, pp 278-284.

*BISI 4899

New Developments in Wet Cleaning of Waste Gases from Oxygen Steelworks, by K. Baum.
GERMAN, per, Staub, Vol 25, Oct. 1965, pp 385-390.

BISI 4770

Electrical Separation of Sulphuric Acid Mist From Waste Gases in Sulphuric Acid Production, by K. Stopperka.
GERMAN, per, Staub, Vol 25, Nov. 1965, pp 508-512.

BISI 4838

Scientific Materials & Metallurgy (Contd)

Use of Shell Toroidal Burner in a 3-Ton Vessel for Preheating or Melting Scrap, by K. Borowski et al.
GERMAN, per, Techn. Mitt. Krupp, Vol 22, Dec. 1964, pp 143-147.
BISI 4753

Tank Fire Tests in the Pluto Mine in Wanne-Eickel, by Ing. Spohn.
GERMAN, per, VFDB Zeitschrift Forschung und Technik im Brandschutz, Vol XIV, No 4, 1965, pp 107-113.
*Dept of Navy/NRL

Dew Range Control Development and Experiences, by H. Mika, E. Sperling.
GERMAN, per, VGB Mitt., Vol 95, Apr. 1965, pp 127-131.
BISI 4809

Recent Studies of the Corrosion of Iron by Oxygen, by G. Resch, et al.
GERMAN, per, VGB Mitt., Aug. 1965, pp 228-240.
BISI 4709

The Determination of Aluminium in the Iron and Steel Industry, by J. Jurczyk.
GERMAN, per, Z. Anal. Chem., Vol 210, No 5, 1965, pp 324-334.
BISI 4811

Short-range Order and K-State, by Hans Guenter Baer. 17 pp.
GERMAN, per, Zeit Metallk., Vol 56, 1965, pp 79-84.
AEC ORNL-tr-632

The Formation of "Deformation Textures" in Heterogeneous Alloys, by D. Marz, G. Wassermann.
GERMAN, per, Z. Metallk., Vol 56, Aug. 1965, pp 516-522.
BISI 4781

On the Present Position of Systematic Observations of Liquid Alloys (on Systematics VII), by F. Saemwald, et al.
GERMAN, per, Zeitschrift fur Metallkunde, Vol 57, 1966, pp 103-108.
*AEC 2393

Scientific Materials & Metallurgy (Contd)

The Transport of Ions and Electrons in Binary Oxides and its Investigation by Means of EMF Measurements, by H. Schmalzried.
GERMAN, per, Zeitschrift fur Physikalische Chemie, Vol 58, July 1963, pp 87-102.
BISI 4784

Steelworks Transport and Materials Handling: Automation in Transport and Raw Materials Preparation Plant in Finsider's Fourth Steelworks, by M. Bucci, G. Mazzoli.
ITALIAN, rpt, Paper Presented at the International Steelworks Transport Conference at Dusseldorf, 1965, 22 pp.
BISI 4562

Study on Caustic Corrosion of Boiler Tube, Corrosion of Mild Steel in Potassium Phosphate Solution, by S. Fukui, et al.
JAPANESE, per, Boshoku Gijutsu, Vol 13, April 1964, pp 19-23.
NLL Ref: 9022.09 1965 (4018)

Direct Observation of the Transformation From O' to O Phase During Precipitation in an Al-Cu Alloy, by M. Nemoto, S. Koda.
JAPANESE, per, Nihon Kinzoku Gakkai, Vol 27, No 12, 1965, pp 599-604.
NLL Ref: 9022.09 1965 (4021)

Studies on Corrosion of Graphite by Molten Bismuth, by Yuichiro Kamamoto, Yoshihisa Takahashi, et al. 10 pp.
JAPANESE, per, Nippon Genshiryoku Gakkaishi, Vol 6, 1964, pp 71-76.
AEC NP-tr-1194

Measurement of Dose Build-up Factors of Iron Siebs for a Line Isotropic Source, by Iwao Umada.
JAPANESE, per, Nippon Genshiryoku Gakkaishi, Vol 7, No 9, 1965, pp 480-484. 9232716
AEC ORNL-tr-1133

Absorption Spectra of Phthalocyaninetetra-4-Sulfonic Acid and its Metal Derivatives, by Hiroshi Kobayashi, Yasuo Torii, et al.
JAPANESE, per, Nippon Kagaku Zasshi, Vol 81, No 5, 1960, pp 694-698. 9232761
AEC UCRL-tr-1318

Scientific
Materials & Metallurgy (Contd)

Consideration on the Recrystallizing Speed
of Austenite Grains After Hot Working,
by N. Takeda.
JAPANESE, per, Nippon Kinzoku, Vol 15, No 12,
1951, pp 578-581.
*BISI 4905

High-Temperature Creep of Nickel-Tungsten
Alloys, by Kaizo Monma, Hajime Suto et al. 9 pp.
JAPANESE, per, Nippon Kinzoku Gakkaishi, Vol 28,
1964, pp 304-307.
AEC ORNL-tr-552

Equipment and Operation of the Oxygen
Converter Plant at Wakayama Steel
Works, by A. Tomita et al.
JAPANESE, per, Sumitomo Metals, Vol 16,
Apr. 1964, pp 87-96.
BISI 4466

Some Problems on the Lining of a Large-
Size Electric Steelmaking Furnace,
by H. Hiyama.
JAPANESE, rpt, Technical Report of Harima
Refractories Co. Ltd., Dec. 1964, pp 808-817.
BISI 4556

Effect of Vanadium on the Austenite Grain
Size in Iron and Steel (II), by K. Kunii.
JAPANESE, per, Tetsu to Hagane, Vol 42, No 3,
1956, pp 195-197.
*BISI 4906

Effect of Hot Working on Grain Growth
Characteristics of Austenite, by Y. Masuko.
JAPANESE, per, Tetsu to Hagane, Vol 42,
No 3, 1956, pp 242-244.
*BISI 4907

On the Grain Size and Impact Value of
Carbon Steel, by S. Komazuka et al.
JAPANESE, per, Tetsu to Hagane, Vol 42,
No 3, 1956, pp 244-246.
*BISI 4908

Study of Consumption of Carbon and Heat
in the Blast Furnace, I - Consumption of
Carbon and Heat in the Blast Furnace,
II - Application of Results to Blast Furnace
Operation, by J. Sawamura.
JAPANESE, per, Tetsu to Hagane, Vol 45,
1959, I pp 194-195, II pp 196-197.
BISI 4652

Scientific
Materials & Metallurgy (Contd)

Continuous Annealing of Cold-Rolled
Sheets, by K. Hiramatsu.
JAPANESE, per, Tetsu-to-Hagane, Vol 49,
Jan. 1963, pp 63-78.
*BISI 4902

On the High Temperature Strength of 18-8 Mo
Stainless Steel Castings by Kanetoshi Iwamoto,
Masao Kawabata, et al.
JAPANESE, per, Zairyo, Vol 14, No 137, 1965,
pp 101-110. 9232889
AEC ORNL-tr-961

Statistical Evaluation of the Optimum
Size of Flat Tensile Specimens of Ductile
Metals, by Z. Misiolek, 23 pp.
POLISH, per, Prace Instytutu Hutnictwa,
Vol XV, No 2, 1963, pp 77-82.
ACSI I-9306
ID 2204012266

Rumanian Inventions in the Fields of Mining,
Coking, Materials Testing, Particle Accelerators,
and Chemistry, by E. Pau, 10 pp.
HUMANIAN, per, Inventii si inovatii, No 2,
Feb 1966, pp. 41-45.
JPRS 35854

Quality and Assortments of Steel, by I.
Tripsa, A. Constantinescu and D. Cosma,
5 pp.
HUMANIAN, per, Viiata Economica, Vol 4,
No 13 (137), 1 Apr 1966, pp. 1-4.
JPRS 35402

The Interaction of Fast H+ ions With Metal
Surfaces in a Very High Vacuum,
by B. S. Borovik, et al.
SERBOKROATIAN, rpt, Belgrade Conference
Paper, 1965, pp 1-10.
NLL Ref: 9091.9 1965 (CTD/227)

Combinations of Iron with Ascorbic
Acid, by J. Anelli.
SPANISH, per, Acta Cientifica Venezolana,
Vol 9, No 5, 1958, pp 104-114.
BISI 4617

On the Relationship Between the Hydrogen
Content of Iron, the Temperature and
the Hydrogen Equilibrium Pressure,
by G. Phragmen.
SWEDISH, per, Jernkont. Ann., Vol 128,
No 10, 1944, pp 537-552.
*BISI 4601

Scientific Materials & Metallurgy (Contd)

The Addition of Aluminium for Deoxidation of Steel, by G. Widmark.
SWEDISH, per, Jernkont. Ann., Vol 150, No 1, 1966, pp 28-50.
*HB 6870

Roll Cylinder Device for Automatic Equalizing of the Pressure Exerted Upon the Treated Material, by Heinz Keller, 6 p.
SWISS, pat, Swiss Patent No 183,005.
Dept of Comm
Patent Office

Mathematics & Data Processing

Lectures in General Algebra,
by A. G. Kurosh.
RUSSIAN, bk, 1965, 364 p.
Pergamon Press
NLL

High-Speed Serial Adder of the Intermediate Type, by M. G. Gogoberidze, et al.
RUSSIAN, bk, Ak Nauk GruzSSR Institut Kibernetiki, 1964, pp 163-171.
*FTD-HT-66-403

Optimization of a Threshold Level Value of a Computing Device, by A.M. Bonch-Bruyevich. 9 pp.
RUSSIAN, per, Avtomatyka, No 5, 1964, pp 31-35.
9700749
FTD-TT-65-1485

High-Speed Ferromagnetic Memory Devices, by L. P. Krayzmer.
RUSSIAN, bk, Bystrodeystvuyushchiye Ferromagnitnyye Zapominsayushchiye Ustroystva, 1964, pp 1-371.
*FTD-MT-66-62

Problems in Automatic Text Reading Projects, by M. L. Avrakh, 10 pp.
RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 5-13
JPRS 35,951

Peculiarities of Using Statistical Criteria in Automatic Reading, by V. P. Romanov, 13 pp.
RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 14-24
JPRS 35,951

Scientific Mathematics & Data Processing (Contd)

Some Problems in Statistical Processing of Printed Symbols Using a Computer, by N. Ya. Birman, S. V. Karchina, 13 pp.
RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 25-35
JPRS 35,951

A Reading Automation for Recognition of Symbols With Respect to the Fragment Method, by L. M. Magidson, Yu. M. Sidorin, 5 pp.
RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 36-39
JPRS 35,951

A Decoder, by O. L. Fedorets, 5 pp.
RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 40-41
JPRS 35,951

The Selection of the Number of Gradations in A Probability Synthesis Device, by A. D. Krisilov, 12 pp.
RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, 44-53
JPRS 35,951

Multicascade Pattern Recognition Systems, by V. I. Zaytsev, 14 pp.
RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 54-65
JPRS 35,951

The Application of Linear and Spherical Separators to the Solution of Pattern Recognition Problems, 10 pp.
RUSSIAN, bk, Chitayushchiye Ustroystva, 1965 pp. 66-73
JPRS 35,951

The Selection of Standard Representatives of Classes of Patterns, by Ye. M. Dmitrenko, 9 pp.
RUSSIAN, bk, Chitayushchiye Ustroystva, 1965 pp. 74-80
JPRS 35,951

The Application of the Concepts of Information Theory of Simple Problems in Pattern Recognition, by A. A. Savin, 11 pp.
RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 81-89
JPRS 35,951

Scientific
Mathematics & Data Processing (Contd)

The Use of Probability Distributions for the Description of Classes of Patterns, by A. A. Savin, 10 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 89-95 JPRS 35,951

The Construction of Generalized Signs of Two-Dimensional Patterns, by V. M. Linkin, 9 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 96-102 JPRS 35,951

Some Training Processes in Pattern Recognition Systems, by S. A. Sudakov, 9 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 103-109 JPRS 35,951

Matrix Reliability, by G. V. Poddubnyy, 21 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965 pp. 110-125 JPRS 35,951

Determination of the Minimal Description of a System of Patterns, by G. V. Poddubnyy, 14 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 126-136 JPRS 35,951

Evaluation of the Validity of Automatic Reading of Symbols in a Printed Text, by V. V. Semakov, 10 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 137-143 JPRS 35,951

Simulation of a Procedure for Recognition of Handwritten Symbols, by V. V. Kirilov, 16 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965 pp. 144-154 JPRS 35,951

Recognition of Alpha-Numeric Information By The Method of Invariant Transformation, by V. M. Gorobtsov, 18 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 155-168 JPRS 35,951

Scientific
Mathematics & Data Processing (Contd)

A Logical System for Recognition of Symbols, by V. G. Komandirovskiy, 14 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 169-178 JPRS 35,951

Some Peculiarities of the Correlation Method of Pattern Recognition, by V. K. Yeliseyev, 10 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 179-186 JPRS 35,951

The Use of Differential Signs for the Classification of Symbols, by V. S. Vaynshteyn, 6 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965 pp. 187-191 JPRS 35,951

On Optimal-Electronic Convertor for Scanning Alpha-Numeric Text, by P. P. Yashinskas, 6 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965, pp. 195-199 JPRS 35,951

Procedures for Reading Functions of Two Variables In Cathode Ray Tube Devices, by A. A. Budnyak, A. I. Petrenko, 5 pp. RUSSIAN, bk, Chitayushchiye Ustroystva, 1965 pp. 200-204 JPRS 35,951

The Laplace-Galu Transformation in the Theory of Sequential Devices, by Ya. Z. Tsypkin and R. G. Faradzhev, 6 pp. RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 166, No 3, pp. 570-573. JPRS 35705

A General Approach to Solutions of Linear Programming Problems with Block Structures, by E. G. Gol'shtein, 7 pp. RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 166, No 5, 1966, pp. 1062-1065. JPRS 35655

On the Construction of a Mathematical Model of "Biological Clocks", by B. S. Moshkov, et al. RUSSIAN, per, Dokl Ak Nauk SSSR, Vol CLXVII, No 2, 1966, pp 440-443. *NASA TT F-10, 1v/

Scientific
Mathematics & Data Processing (Contd)

Data Processing Systems in Soviet Industry,
by I. A. Yevenko, 10 pp.
RUSSIAN, per, Ekonomika I-matematicheskiye
metody, Vol II, No 2, Mar-Apr 1966, pp. 164-
170.
JPRS 35819

Block Diagrams for Simulating Synchronous
Generator Equations on Analogue Computers,
by, G. T. Adonts, et al.
RUSSIAN, per, Elektrichestvo, No 11,
1964, pp 19-21.
NLL Ref: 9022.09 1965 (4053)

The EV-80-3 Electronic Computer and its Use in
Planning-Accounting Work, by G. S. Savilov.
RUSSIAN, bk, Elektronnyye Vychislitel' EV-80-3 I
Yego Ispol'zovaniye V Planogouchechnykh Rabotakh,
Moscow, 1965, pp 5-34 & 100-107.
*FTD-MT-66-55

The Stereometergraph, by N. A. Tumar and T. P.
Budylova,
RUSSIAN, per, Geodeziya i Kartografiya, No 10,
1965, pp 51-59.
*FTD-MT-66-390

Use of Electronic Digital Technique for
Time Interval Measurement, by V. A. Zhilin.
RUSSIAN, rpt, Informatsionnyy Sbornik
Tsentral'nogo Nauchno-Issledovatel'skogo
Instituta Morskogo Flota, Vypusk 98,
1963, pp 23-31.
*ACSI I-9685
ID 2204024866

Physical Picture of the Formation of an
Artificial Radiation Belt by the American
High-Altitude Thermonuclear Burst of
9 July 1962, by Yu. I. Gal'perin.
RUSSIAN, rpt, Issledovaniya Kosmicheskogo
Prostranstva, 1965, pp 388-393.
Dept of Navy Tr 4723/APL/JHU TG 230-T466

Use of Computers, by G. Kazanskiy, 6 pp.
RUSSIAN, xp, Izvestiya, 26 Apr 1966, p. 3.
JPRS 35596

Plastic Flexure in a Freely-Supported Circular
Plate Under the Action of an Axisymmetrical Load,
by Xium Zhu-Hua. 9 pp.
RUSSIAN, per, Izvestiya, Ak Nauk SSSR, Mekhanika
i Mashinostroyeniye, No 6, 1963, pp 159-163.
*FTD-TT-65-1477

Scientific
Mathematics & Data Processing (Contd)

On the Dynamics of an Automatic Course System,
by L. A. Komraz. 13 pp.
RUSSIAN, per, Izvestiya Akad. Nauk SSSR, Mekhanika
i Mashinostroyeniye, No 5, 1964, pp 54-60.
9700444
FTD-TT-65-1784

Methods of Quantitative Analysis of Complex
Systems, by D. B. Yudin, 19 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn. Tekh Kibernetika,
No 1, Jan/Feb 1966, pp. 3-16
JPRS 35,873

The Information Approach to Finding a Queueing
of Functions, by Yu. I. Neumark, R. G. Strongin,
15 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn. Tekh Kibernetika,
No 1, Jan/Feb 1966, pp. 17-26.
JPRS 35,873

Statistical Selection of Requests in a Queueing
System with Rejections, by A. A. Natan, 6 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn. Yekh
Kibernetika, No 1, Jan/Feb 1966, pp. 27-30.
JPRS 35,873

A Problem in the Theory of Finite Automata, by
V. A. Moshchenskiy, 14 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn. Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 70-78
JPRS 35,873

Realization of Logical Functions Made of One
Threshold Element, by V. I. Loginov, 14 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn. Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 79-96
JPRS 35,873

Predicting the Trajectories of Stochastic Systems,
by Yu. I. Parayev, 13 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn. Tekh
Kibernetika, No 1, Jan/Feb 1966, pp. 87-94
JPRS 35,873

A Pulse Shaper for Electronic Digital Devices,
by S. A. Alekseev, 10 pp.
RUSSIAN, per, Iz Ak Nauk SSSR Otn. Tekh Kibernetika,
No 1, Jan/Feb 1966, pp. 170-174
JPRS 35,873

Scientific
Mathematics & Data Processing (ContD)

Linear Second-Order Equations With Non-Negative Characteristic Shape, by O. A. Oleinik.
RUSSIAN, per, Matematicheskii Sbornik,
Vol LXIX, No 1, 1966, pp 111-140.
*Dept of Navy/APL/JHU J-830

Methods of Solving Structural Engineering Problems by Electronic Digital Computers, by R. A. Reznikov.
RUSSIAN, bk, Metody Resheniya Zadach Stroitel'noy Mekhaniki na Yelektronnykh Tsifrovyykh Mashinakh, Moskva, 1964, pp 1-322.
*FTD-HT-66-270

Statistical Processing of Primary Attributes of Speech Signals with the Aid of an Electronic Computer, by O. A. Petrov, 8 pp.
RUSSIAN, per, Opozneniye Obrazov - Teoriya Perekhodchii Informatsii, 1965, pp. 30-36.
JPRS 35475

The Use of Computers in the USSR, by O. Kozlova, 5 pp.
RUSSIAN, np, Pravda, 4 Mar 1966, p. 3.
JPRS 35725

Numerical Solution of a System of Differential Equations Application of the Method to the Calculation of a Rotation Shell, by M. Sh. Mikeladze, 9 pp.
RUSSIAN, per, Prikladnaya Matematika i Mekhanika, Vol 17, No 3, 1953, pp 382-386. 9700439
FTD-TT-65-1439

Two-Address Computers: Programming and Problem Solution, by T. S. Latysheva, 200 pp.
RUSSIAN, bk, Programmirovaniye i Resheniye Zadach na Dvukhadressnykh Mashinakh, Moskva, 1963, 184 pp.
9700609-V
FTD-TT-65-402

A comparative Review of Domestic Automatic Control System, Yu. S. Yakovlev 31 pp,
RUSSIAN, bk, Teoriya, Raschet i Printsipy Konstruirovaniya Elektronnoy Agregatnoy Unifikirsovannoy Sistemy, 1965 pp. 4-37
JPRS 35,632

Normalizing Convertors of the EAUS System, by A. Z. Zakharov, 10 pp.
RUSSIAN, bk, Teoriya, Raschet i Printsipy Konstruirovaniya Elektronnoy Agregatnoy Unifikirsovannoy Sistemy, 1965 pp. 38-47
JPRS 35,632

Scientific
Mathematics & Data Processing (Contd)

The EUFZ-1 Summator, by V.G. Grishanov, 9 pp.
RUSSIAN, bk, Teoriya, Raschet i Printsipy Konstruirovaniya Elektronnoy Agregatnoy Unifikirsovannoy Sistemy, 1965, pp. 48-55
JPRS 35,632

Automatic Control System for the Temperature of Superheated Steam in the MN-7 Electronic Simulator, by Yu. V. Novoselov, M. A. Grigor'yeva, 9 pp.
RUSSIAN, bk, Toeriya, Raschet i Printsipy Konstruirovaniya Elektronnoy Agregatnoy Unifikirsovannoy Sistemy, 1965, pp. 82-90
JPRS 35,632

Investigation of the Algorithm used in a Specialized Digital Computer for Conversion of Equatorial Coordinates to Azimuthal Coordinates, by S.V. Korotkov, V.A. Myasnikov, et al. 15 pp.
RUSSIAN, per, Trudy Ak Nauk SSSR, Institut Elektromekhaniki. Sbornik Rabot Po Voprosam Elektromekhaniki, No 9, 1963, pp 87-101. 9700773
FTD-MI-65-415

A Parametric Method of Integrating Laminar-Boundary-Layer Equations, by Victor Klein.
RUSSIAN, per, Trudy Leningradskiy Politekhnicheskiy Institut, Tekhnicheskaya Gidrogazodinamika, No 248, 1965, pp 45-55.
ATD Report 66-30

Problems in Probability Theory and Mathematical Statistics, by A. N. Kolmogorov.
RUSSIAN, per, Vestnik Akad Nauk SSSR, No 5, 1965 pp 94-96.
FTD-HT-66-289

The MN-14 Electronic Nonlinear Analog Computer, by V. B. Ushakov.
RUSSIAN, bk, Yelektronnaya Nelineynaya Analogo-vychislitel'naya Mashina MN-14, Moskva, 1965, pp 3-69; 108-133; 152-164; 219-233.
*FTD-MT-66-54

About a Differential System of an Increased Order of Accuracy for an Equation of the Elliptic Type with Spatial Variables, by A. A. Samarskii, V. B. Andreyev.
RUSSIAN, per, Zh. Vych. Mat. i Mat. Fiz., Vol 3, No 6, 1963, pp 1006-1013.
NLL Ref: 5828.4F 1965 (5805)

Scientific Mathematics & Data Processing (Contd)

Reference Manual of Standard Programs for the 104 Electronic Digital Computer, 7 pp.
CHINESE, bk, 104 Tien-tzu Chi-suan-chi,
Piao-chun Ch'eng-hsu Hui-pien, 1965,
JPRS 35342

On Automatic Speech Identification by Means of a Computer, by B. Borovickova, V. Malac, 29 pp.
CZECH, per, Slaboproudý Obzor, No 7, 1965, pp 385-390.
ACSI I-8854A
ID 2204064665

Programming of the Non-Numerical Problems, by P. Braffort, et al. 11 p.
FRENCH, rpt, EUR 365.f. Apx 1964.
*AEC

The Position of Polynomial Zeros that Arise From Minimum Requirements of a Certain Kind, by L. Fejer.
GERMAN, per, Mathematische Annalen, Vol 85, 1922, pp 41-48.
*AEC 2386

"Mac-Rad" -- A Multigroup Attenuation Code for Plane Geometry, by Preusch; Ilsemann. 91 pp.
GERMAN, rpt, Nuclear Energy Plants Report No 116, 20 Oct 1963.
AEC ORNL-tr-610

Cybernetics and Technology; Introduction to the Problem Area of Thinking Automata, by F.H. Lange.
GERMAN, per, Radio und Fernsehen, No 21, 1964, pp 643-645.
*FTD-HT-66-287

Old and New Ideas on Numerical Quadrature, by E. Stiefel.
GERMAN, per, Zeit. Angew. Math. Mech., No 41, 1961, pp 408-413. 9232722
ABC SC-T-66-0726

Main Achievements and Trends in Hungarian Automation Research, by Otto Benedikt, 14 pp.
HUNGARIAN, per, A MTA Matematikai Tudományok Osztalyának Korlátományei, Vol 36, No 1-4, 1965, pp. 57-69.
JPRS 35474

Scientific Mathematics & Data Processing (Contd)

Method to Improve the Differential Linearity of Analogue-Digital Converters and Related Apparatus, by E. Gatti, et al.
ITALIAN, Patent, 699,271.
*AEC 2381

Analytical Aerial Triangulation, by Zbigniew Sitek,
POLISH, per, Przeglad Geodezyjny, Vol XXXVII, No 9, 1965, pp 374-377.
*FTD-HT-66-389

Nuclear Sciences & Technology

A Method for Measuring Exchange Capacitance and Kinetic Characteristics of Ionites, by B.A. Alekseyev, D.S. Il'ina, et al.
RUSSIAN, rpt, ZFK-RN-77, pp 75-94. 9232872
AEC WAPD-tr-25

Properties of Isotope $^{102}\text{Ru}^{254}$, by B. A. Zager, et al.
RUSSIAN, rpt, JINR-R-2470, 1965.
*AEC 2398

The Study of Charged Particle Beams by Means of Pick-up Electrodes, by L. L. Goldin.
RUSSIAN, rpt, Report ITEF 363.
NLL Ref: 5828.4 1965 (5802)

Absolute Measurements of Cross-Sections of 24 Kev Neutron Absorption, by T.S. Belanova, A.A. Van'kov, et al. 15 pp.
RUSSIAN, rpt, Absolyutnye Izmereniya Sechenii Pogloshcheniya Neutronov s Energiей 24 Kev, 1965. NP-15103 9232714
AEC ANL-tr-279

The Theory of Radiocommunication Channels with Random Varying Parameters, by V. I. Siforov, 32 pp.
RUSSIAN, per, Acta Technica Academiae Scientiarum Hungaricæ, Vol 39, No 1-2, 1962, pp. 135-162.
JPRS 35719

Electromagnetic Pumps for Alkali Metals, by N. I. Marin, V. A. Tovstom, et al. 8 pp.
RUSSIAN, per, Atomnaya Energiya, Vol. 18, No 3, 1965, pp 239-242. 9700752
FTD-TT-65-1456

Scientific
Nuclear Sciences & Technology (Contd)

On Alpha and Beta Radiation Method for Determining Concentration of Short-Lived Radon Daughter Products in Air, by V. G. Labushkin, L. S. Ruzer.
RUSSIAN, per, Atomnaya Energiya, Vol XIX, No 1, July 1965, pp 24-28.
Dept of Navy Tr 4720/NRL tr No 1054

Interaction of a Modulated Beam With a Plasma by Ya. B. Faynberg.
RUSSIAN, per, Atomnaya Energiya, Vol 19, No 4, 1965, pp 336-342.
*FTD-HT-66-302

Effect of a Purification System on the Build-Up of Radioactive Products of Corrosion in a Pressurized-Water Reactor, by A. P. Veselkin and O. Ya. Shakh, 10 pp.
RUSSIAN, per, Atomnaya Energiya, Vol XX, No 4, Mar 1966.
JPRS 35656

Calculations of Critical Experiments on Assemblies in ZPR-3 With the Aid of the System of Constants Fei, by N.O. Bazazyants, S.N. Zaritskiy. RUSSIAN, rpt, Center for Nuclear Data, Vol 2, 1965, pp 247-280. 9232878
AEC tr-6693

Investigation of Application of Organic Heat Transfer Moderators in Nuclear Reactors, by Yu. N. Alekseenko, A. M. Brodskiy.
RUSSIAN, per, Doklady Akademii Nauk Atomnoy Energii Institut, 1964, pp 1-37.
*FTD-MT-66-50

Some Possibilities of Method of Eddy Currents for Multiparameter Checking of Elements of Constructions, by V. G. Vyakhore, V.G. Gerasimov, et al. 19 pp.
RUSSIAN, rpt, Doklad Predstavlen Na Simpozium Po Ispytaniyam Bez Razrusheniya Obraztsa V Yadernoy Tekhnologii, Bukarest, 17-21 May 1965. 9700772
FTD-MT-65-563

An Experimental Study of Charge-Transfer Injection of Protons into Circular Accelerators and Storage Rings, by G.I. Budker, G.I. Dimov, et al. 13 pp.
RUSSIAN, rpt, Eksperimental'noye Issledovaniye Perezaryadnoi Inzhektsii Protonov v Kol'tsevyye Uskoriteli i Nakopiteli, 1965. 9232789
AEC SLAC-tr-33

Scientific
Nuclear Sciences & Technology (Contd)

Experimental Determination of the Quality Factor of Radiation Near High-Energy Accelerators, by V.N. Lebedev, M. Zielczyn'ski, et al. 9 pp.
RUSSIAN, rpt, Eksperimental'noye Opredeleniye Falctora Kachestva Izlucheniya Vblizi Uskoritelei Vysokoi Energii. 9232792
AEC SLAC-tr-37

Investigation of the Relationship Between Absorption of Cations and Anions on Platinum From Acid Solutions at Various Potentials, by N.A. Balashova, V. E. Kazarinov.
RUSSIAN, per, Elektrokhimiya, Vol 1, No 5, 1965, pp 512-516. 9232883
AEC NP-tr-1373

γ -Rays at the Capture and Inelastic Scattering of Neutrons, by V. S. Al'nokov, A. I. Lashuk, et al. 9 pp.
RUSSIAN, rpt, Gamma-Luchi pri Zakhvate i Neutronom Rasseyannia Neutronov, 1964.
AEC ANL-tr-178

Lie Groups and Symmetry of Elementary Particles, by I. S. Shapiro, V. B. Mandel'tsveig. 50 pp.
RUSSIAN, rpt, Gruppy Li i Simmetriya Elementarnykh Chastits, 1964, NP-14246. 9232860
AEC ANL-tr-307

Gamma Irradiation Facilities, by B. M. Isayev.
RUSSIAN, bk, Izotopnye Gamma-Ustanovki, Moscow, 1960.
CFSTI
AEC-Tr-6469.

Neutron Spectra of Interactions Between Heavy Ions and Intermediate Nuclei, by G. Kumpf, L. Kumpf, et al.
RUSSIAN, rpt, Joint Institute for Nuclear Research, Dubna USSR. Lab. of Nuclear Reactions. Reports 1964, (JINR-P-1765). 9232743
AEC UCRL-tr-1294

Problem of Radiation Stability of Ion Exchange Resins. Communication II. Radiation Damage in Certain Polymeric Anionites, by P.D. Novikov. 34 pp.
RUSSIAN, rpt, K Voprosu o Radiatsionnoi Ustoichivosti Ionoobmennyykh Smol. Soobshchenie II, O Radiatsionnom Povrezhdenii Nekotorykh Polimerizatsionnykh Anionitov. Moscow, 1964. 9232782
AEC ANL-tr-292

Scientific
Nuclear Sciences & Technology (Contd)

Method of Field-theoretic Green's Functions in Atomic and Molecular Problems, by V. V. Tolmachev, 34 p.
RUSSIAN, per, Litovskiy Fizicheskiy Sbornik, Vol III, No 1-2, 1963, pp 47-72. 9700557
AFCRL T-R-546

Angular Integration of Feynman Diagrams in the Field-theoretic Perturbation Theory of Atoms, by A. B. Bolotin and I.B. Levinson, et al., RUSSIAN, per, Litovskii Fizicheskiy Sbornik, Vol IV, No 1, 1964, pp 25-33. 9700555
AFCRL T-R-543

Drift Cyclotron Instability of Plasma With Hot Ions, by A. B. Mikhailovskiy.
RUSSIAN, PER, Nuclear Fusion, Vol 5, No 2, 1965, pp 125-143. 9232836
AEC-tr-6670

Experimental Estimates of Electric Polarizability Coefficients of Nucleons, by Yu. A. Aleksandrov, G. S. Samosvat. 23 pp.
RUSSIAN, rpt, O Nekotorykh Eksperimental'nykh Otseinkakh Velichin Koefitsientov Elektricheskoi Polyarizuemosti Nuklonov, 1965. 9232886
AEC ANL-tr-294

Method for the Investigation of Boiling by an Analysis of Fluctuations Induced in a Reactor, by A. Iftode, A. Mikheile, et al. 11 pp.
RUSSIAN, rpt, Ob Odnom Metode Issledovaniya Kipeniya Analizom Flyuktuatsii Vyzvannykh V Reaktore, Apr 1963, NP-13442. 9232890
AEC ANL-tr-302

Reactions of Neutrons With Uranium-235 Nuclei at 0.002 to 30 Kev, by Van-Shi-Di
RUSSIAN, bk, Ob'yedinennyi Institut Yadernykh Issledovaniy. Predstavleno na Konferentsiyu po Fizike i Khimii Deleniya V Zal'tsburge (Abstriya) 22-26 Mar 1965 G, pp 1-25.
*FTD-HT-66-338

Experiments on a Synthesis of Spontaneously Fissioning Isomer in the ^{241}Am (n, γ) ^{242}Am Reaction, by B.N. Markov, A.A. Pleva.
RUSSIAN, rpt, Opyty po Sintezu Spontannno Delyashchegosya Izomera v Reaktsii Am²⁴¹ (n, γ) Am²⁴² 1966. 9232736
AEC ORNL-tr-1099

Scientific
Nuclear Sciences & Technology (Contd)

Injection of Plasmoids into a Mirror Trap With Adiabatic Plasma Compression(Aspa Apparatus), by A.I. Karchevskiy, A.P. Babichev, et al. 28 pp.
RUSSIAN, rpt, Paper CN-21/162 Presented at the Plasma Physics and Controlled Nuclear Fusion Research Conference, Culham, England, Sep 6-10, 1965. 9232742
AEC UCRL-tr-1282-L

Problems of Defectoscopic Examination of Structural Materials for the Reactor of the First Czechoslovakian Atomic Power Station, by P. Radislav.
RUSSIAN, rpt, Paper Presented at the Symposium on Non-Destructive Testing in Nuclear Technology, Bucharest, 17-21 May 1965.
NLL Ref I769.6 1965 (AECL-2286)

Energy Dependence of the Slope of the Diffraction Curves for pp, -pp, $K^+ p$, $K^- p$ and $\bar{p} p$ Scattering, by A. L. Lyubimov.
RUSSIAN, rpt, Report Joint Institute Nuclear Research P-2202.
NLL Ref. 5828.4 1965 (5801)

Yield Cross-Sections of γ -Quanta and of the Excitation of Nuclear Levels at Inelastic Neutron Scattering, by D. L. Broder, A. I. Lashuk, et al. 17 pp.
RUSSIAN, rpt, Secheniya Vakhoda Gamma-Kvantov i Vozbuzhdeniya Urovnei Yader pri Neuprugom Rasseyaniye Neutronov, 1964.
AEC ANL-tr-177

Multiple Acceleration System for an Electrodynamic Separator of High-Energy Particles, by N.G. Borisov, V.A. Vagin, et al. 13 pp.
RUSSIAN, rpt, Sistema Kratnogo Uskoreniya Elektrodinamicheskogo Separatoria Chastits Vysokikh Energii, 1965, 9232791
AEC SLAC-tr-36

Development of Spectrometric Method for Determination of the Activity - Distribution Law Relative to the Depth of Alpha-Emitters, by O. A. Chutkin, et al. 7 p.
RUSSIAN, rpt, State Committee on the Peaceful Uses of Atomic Energy, No 7, Moscow, 1965. (NP-15927)
*AEC

Scientific
Nuclear Sciences & Technology (Contd)

Heat of Solution of Plutonium in Hydrochloric Acid, by V. V. Akhachinskiy. 9 pp.
RUSSIAN, rpt, Symposium on Thermodynamics With Emphasis on Nuclear Materials and Atomic Transport in Solids, Vienne, Jul 22-27, 1965,
9232885

AEC ANL-tr-306

Spin Correlation Tensor in the Scattering of Polarized Nucleons on a Polarized Proton Target, by P. Winternitz, F. Lehar, et al.
RUSSIAN, rpt, Tenzor Spinovoi Korrelyatsii Pri Rasseyaniyu Polaryzovannykh Nuklonov na Protonnoi Polaryzovannoi Misheni, 1965, pp 1-40.
9232728

AEC ANL-tr-301

Effect of the Energy Gap in the Channel Spectrum Upon the Fission Process, by I. I. Bondarenko, V. F. Kuznetsov, et al. 5 pp.
RUSSIAN, rpt, Vliyanie Energeticheskoi Scheli v Spektre Kanalov na Protsess Deleniya, 1964.

AEC ANL tr-179

Effects of Electromagnetic Interaction of Particles With a 'Colliding' bunch, by Ya. S. Derbenev, S.I. Mishnev, et al. 17 pp.
RUSSIAN, per, Yadern. Fiz., No 2, 1965, pp 119-123, 9232788

AEC SLAC-tr-32

Emission of Photons During the Electromagnetic Annihilation of Heavy Particles, by V.N. Baier, V. A. Khoze. 12 pp.
RUSSIAN, per, Yadern. Fiz., Vol 2, 1965, pp 277-286. 9232787

AEC SLAC-tr-30

Start-up of the B-ZM Synchrotron, An Injector for a Positron-Electron Storage Ring, by G.I. Budker, A.E. Kiselev, et al. 15 pp.
RUSSIAN, rpt, Zapusk Sinkrotrona B-ZM-Inzhektora Diya Pozitron-Elektronnogo Nakopitel'ya Novosibirsk, 1965. 9231369

AEC SLAC-tr-34

Construction of Atomic Industry and Explosion of Nuclear Bombs in Communist China: Table of Contents and Author's Preface, Hsiao I-an, 7 pp.
CHINESE, bk, Chung-kuo Yuan-tzu Kung-yeh Chien-she Yu Ho-pao Neimu, 1965, pp. i-v & 1-4.
JPRS 35490

Scientific
Nuclear Sciences & Technology (Contd)

Measurement of the Response Time of Themocouple in Liquid Metal Circuits, by F. Genet, B. Milliot. FRENCH, rpt, EUR 2281 f 1965.
Dounreay Translation No. 208
AEC

Sintering of (U,Pu) O₂ Pellets, by G. Dean, C. Pellou, et al.
FRENCH, rpt, Report No. CEA-R-2727 EUR 2222f
Dounreay Translation No. 212
AEC

Coincidence Measurements Using Detectors Which Measure the Energy of Radiation, by M. Sartory. 42 pp.
FRENCH, rpt, Commissariat a l'Energie Atomique. Centre d'Etudes Nucleaires, Saclay, CEA-229, Oct 1953.
AEC NP-tr-1203

Contribution to the Analysis of Light Elements Using X-Fluorescence Excited by Radioelements, by A. Robert, FRENCH, rpt, Commissariat a l'Energie Atomique, Rapport CEA-R 2539, 1964.
NASA TT F-10,030

The Absorption and Reflection Spectra of CuI and CuBr at low Temperatures, by S. Nikitine, R. Reiss, et al.
FRENCH, per, Comptes Rendus, Acad. Sci., Vol 242, 1956, pp 1588-1590. 9232762
AEC UCRL-tr-10,004

Electromagnetic Signal of Underground Explosions, by J. Ecylan, Y. Rocard, 4 pp.
FRENCH, per, Compt Rend, Vol 256, 1963, pp 237-239.
AEC SC-T-65-733

Gamma-Radiation Curves Relative to Steel; Aluminum and Uranium, by J. Frippiat, R. Nicks. FRENCH, rpt, Courbes de Rayonnement Gamma Relatives a l'acier et l'aluminium et a l'uranium, EUR-103 F, 1962, 17 pp. 9232735
AEC ORNL-tr-1053

Optimum Dimensioning of Dual-Purpose Plants for the Production of Desalinated Water and Electricity With the Use of Nuclear Energy, by J. Gaussens. FRENCH, rpt, International Atomic Energy Agency 5th Panel on the Utilization of Nuclear Energy in Water Desalination. 9232720
AEC ORNL-tr-1173

**Scientific
Nuclear Sciences & Technology (Contd)**

Preliminary Remarks on the Study of Radioactive Colloids, by A. Chevallier. 7 pp
FRENCH, per, Minerva Nucl, Vol 7, 1963,
pp 439-441.
AEC NP-tr-1197

A Review of Micro-wave Techniques in Plasma Studies, by Terenzio Consoli. 78 pp.
FRENCH, rpt, Rapport Commissariat a L'Energie Atomique - France No CEA-R-2427, Oct 1964,
Translating Text on pp 1-9, 22-26 only. 9232723
AEC SC-T-66-0722

Legal Problems Connected With a Nuclear Accident, by E. Jacchia.
FRENCH, rpt, Symposium on Accidental Irradiation at Place of Work, Nice, 26-29 April, 1966.
*AEC LB/G.2395

Improvements to Nuclear Fuels.
FRENCH, Patent No 1,212,233, Filed 22 Sep 1958,
Issued 19 Oct 1959. 9232784
AEC NP-tr-1371

The Cold Neutron Source for the FR-2 Reactor, by H. Haffner, et al.
GERMAN, rpt,
*AEC 2397

Radioactivity Simulator, by S. Pretre.
GERMAN, rpt, ABC Bulletin No 3, ABC Section 33/22.
Sep 1963. 9232752
AEC ORNL-tr-971

Microcalorimetric Determination of the Activity of Radioactive Nuclides, by H. Ramthun.
GERMAN, per, Acta Imeko, 1964, pp 439-452.
9231370
AEC UCRL-tr-10,017

Report on the Problem of the Possibility of the Underground Disposal of Radioactive Waste.
77 pp.
GERMAN, rpt, Bundesanstalt fuer Bodenforschung, Hanover.
AEC-tr-6549

Effect of Solid-State Body Properties Upon The Calculation of Doppler Coefficients, by Reinhard Froelich, Karl Ott.
GERMAN, rpt, Einfluss von Festkorpereigenschaften auf die Berechnung des Dopplerkoeffizienten, Mar. 1965, pp 1-7+ 9232891
AEC ANL-tr-305

**Scientific
Nuclear Sciences & Technology (Contd)**

Absolute Determination of the Roentgen Unit in the ^{60}Co Gamma Radiation Energy Range Using Cavity Ionization Chambers, by A. Rakow, W. Will. 46 pp.

GERMAN, per, Kernenergie, Vol 6, No 10, 1963,
pp 496-504'. 9228255
AEC NF-tr-1206

The Mobility of "Hot" Electrons and Their Influence on the Rise Time of the Pulse of Semiconductor Counters From n-Silicon, by O. Meyer, H.J. Langmann.

GERMAN, per, Nuclear Instruments and Methods, Vol 34, 1965, pp 77-87. 9232734
AEC ORNL-tr-1051

Problems and Possibilities of Nuclear Fusion, by Wolfgang Ehrenberg.
GERMAN, bk, Probleme Und Moglichkeiten der Atomkernfusion, 1958. 9232778
AEC ORNL-tr-1088

Isotopic Analysis of Plutonium by Optic Spectroscopy, by S. Gerstenkorn.
GERMAN, per, Spectrochimica Acta, Vol 18, 1962,
pp 353-362. 9232873
AEC RFP-tr-12

Preparation of Colloidal Suspension of P32 Chromium Phosphate, by M. Mortreuil. 6 pp.
ITALIAN, per, Minerva Nucl, Vol 7, 1963,
pp 446-447. 9228252
AEC NP-tr-1207

Separation of Products of Nitric Acid Dissolution of Uranium Carbide by Means of Solvents, by F. Mannone, et al.
ITALIAN, rpt, Separazione con Solventi dei Prodotti di Dissoluzione Nitrica del Carburo d'Uranio, 1964.
*AEC ORNL-tr-1262
EDC 20 Jun 66

The Reaction of Pions With Nucleons in the Range of Accelerator Energies, by A. Eskreys.
POLISH, per, Postepy Fizyki, Vol 16, No 3, 1965,
pp 257-278. 9232867
AEC ORNL-tr-1151

Determination of Dose and Energy of X-radiation using Dosimetric Film, by T. Musialowicz.
POLISH, rpt, Symposium on Technical Problems Concerning Radiation Protection, Warsaw, Part I, Sep 1962, pp 96-102. 9232740
AEC SC t-66-0716

Scientific
Nuclear Sciences & Technology (Contd)

Defectoscopy of Thin-Walled Tubes, by
V.V. Gorskij, V.M. Zakharov, et al. 31 pp.
RUMANIAN, rpt, Mezhdunarodnoye Agentstvo Po
Atomnoy Energii. Simpozium Po Ispytaniyam Bez
Razrusheniya V Yadernoy Tekhnologii. Bukharest,
"Jumiv", 17-21 May 1965, pp 1-30. 9700775
AEC NP-tr-1205

Energy Research Today, by Dorel Dorian, 6 pp.
RUMANIAN, per, Stiinta si Tehnica, No 4, Apr
1966, pp. 3-5.
JPRS 3524

The Possibilities for Construction of Nuclear
Power Plants in Yugoslavia, by Todor Ukropina
7 pp.
SERBO-CROATIAN, np, Privredni pregled, 2 Apr
1966, p. 4.
JPRS 35208

Scientific
Physics (Contd)

A Vacuum-Meter Using an A. C. Gas Discharge,
by G. Ya. Nizhnik. 4 pp.
RUSSIAN, rpt, Akademija Nauk Ukr. SSR, Fiziko-
Tekhnicheskiy Institut, 1963. 9228254
AEC NP-tr-1205

The Correct Form of the Equation for the
Capillary Condensation in Porous Bodies
Used to Determine their Structure from
Adsorption and Sorption Isotherms, and
the Converse, by B. V. Deryagin.
RUSSIAN, per, Doklady Ak Nauk SSSR, Vol 113,
No 4, 1957, pp 842-845.
NLL Ref: 5196 1965 (1288)

On the Mechanism of High Temperature Methane Oxidation in Shock Waves, by V.V. Voyevodskiy,
R.I. Soloukhin. 17 pp.
RUSSIAN, per, Doklady Ak Nauk SSSR, Vol 161, No 5,
1965, pp 1118-1120 9700761
FTD-TT-65-1002

Physics

Ion Exchange and its Applications,
by K. V. Chutova.
RUSSIAN, bk, 1959.
NLL R. 17253

The Retrograde Motion of Vacuum and
Low Pressure Arcs in a Tranverse
Magnetic Field, by B. Breitholtz.
RUSSIAN, rpt, A.S.E.A. T.M. 9476,
pp 35-59.
RAE No 1117

Hydrodynamics of a Fluidized Bed in Interstitial
Channels of a Packing, by A. P. Baskakov.
RUSSIAN, per, Akad. Nauk Belorussk. SSR, Inzh-
Fiz Zhurnal, Vol 5, No 12, 1962, pp 48-53.
9232769

AEC ANL-tr-288

On the Excitation of Atoms of Alkali Metals, by
L. Vainshtein, V. Opykhtin, et al. 17 pp.
RUSSIAN, per, Akademija Nauk SSSR, Institut
Fiziki, Report A-53, 1964.
AEC 103-168

Detonation of Nitroglycerin With Small Velocities,
by I.M. Voskoboinikov, A.V. Dubovik, et al. 17 pp.
RUSSIAN, per, Doklady Ak Nauk SSSR, Vol 161, No 5
1965, pp 1152-1155. 9700761
FTD-TT-65-1002

Elastic Constants and Thermal Expansion
of Certain Bodies With a Non-Homogeneous
Regular Structure, by Fo Fy, G. A. Van.
RUSSIAN, per, Dokl Akad Nauk SSSR, Vol CLXVI,
No 4, 1966, pp 817-820.
NASA TT F-10,048

Determination of Detonation Parameters in
Condensed Explosives, by V. A. Veretennikov,
A. N. Dremin and K. K. Shvedov, 14 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,
No 3, 1965, pp. 3-9.
JPRS 35530

Hydrodynamic Solutions for One-Dimensional
Disturbance of An Unstable Detonation Wave,
by L. A. Il'kayeva and N. A. Popov, 11 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,
No 3, 1965, pp. 20-26.
JPRS 35530

Scientific
Physics (Contd)

Conditions for Ignition of Pore Walls during Combustion of Porous Explosive Charge, by A. D. Margolin and S. V. Chuyko, 14 pp. RUSSIAN, per, Fizika Gorenija i Vzryva, No 3, 1965, pp. 27-35
JPRS 35530

Dynamic Conditions of Thermal Explosion, by A. G. Strunina, V. T. Gontkovskaya and A. G. Merzhanov, 8 pp. RUSSIAN, per, Fizika Gorenija i Vzryva, No 3, 1965, pp. 36-40.
JPRS 35530

Initiation of Explosion Through Shock, by M. Ya. Vasil'yev, 9 pp. RUSSIAN, per, Fizika Gorenija i Vzryva, No. 3, 1965, pp. 45-48.
JPRS 35530

Determination of the General Form of the Detonation Rate As A Function of Explosive Charge Radius, by G. G. Rempel', 11 pp. RUSSIAN, per, Fizika Gorenija i Vzryva, No 3, 1965, pp. 49-53
JPRS 35530

Interaction of Shock Wave In A Plastic Medium with a Displacing Obstruction with Consideration of Influence of Free Surface, by G. M. Lyakhov, R. A. Ossachenko and N. I. Polya-kova, 17 pp. RUSSIAN, per, Fizika Gorenija i Vzryva, No 3, 1965, pp. 83-92.
JPRS 35530

Investigation of the Reaction Time in the Electromagnetic Detonation of Liquid Explosives, by A. N. Dremin, O. K. Bosanov and I. G. Koba, 10 pp. RUSSIAN, per, Fizika Gorenija i Vzryva, No 3, 1965, pp. 93-97.
JPRS 35530

The Physics and Technology of Strong Magnetic Fields, by V. R. Karasik. RUSSIAN, bk, Fizika i Tekhnika Silnykh Magnitnykh Polej, 1964, 350 pp.
NLL R. 35113

Scientific
Physics (Contd)

Aerial Photography Using Wide-Angle Objectives With Graded Filters, by M.N. Tsyganov. RUSSIAN, per, Geodeziya i Kartografiya, No 2, 1965, pp 33-37.
*FTD-HT-56-392

Impulse of Reactive Force of Solid Propellant Rockets, by Ya. B. Zel'dovich, M. A. Rivin, et al. 184 pp. RUSSIAN, bk, Impul's Reaktivnoy Sily Porok-hovykh Raket, 1963, pp 1-191. 9700533-V
FTD-MT-65-244

An Analog Experiment on Turbulent Liquid Metal Heat Transfer in the Entrance Region of Noncircular Ducts, by J. T. Pearson, T. F. Irvine. RUSSIAN, per, Inzh Fiz Zhur, Vol VI, No 6, 1963, pp 10-19.
NASA TT F-10,052

The Question of Heat and Mass Exchange During Evaporation of Water From a Porous Wall, by V. P. Isachenko. RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, Vol 7, No 2, 1964, pp 117-119.
*FTD-HT-66-307

Representation of the Equation of State of a Real Gas by Elementary Functions and Methods for Their Determination, by Ya. Z. Kazavchinskii. RUSSIAN, per, Inzh Fiz Zhur, Vol VII, No 6, 1964, pp 129-134.
*NASA TT F-10,078

Second All Union Conference on Thermo-and Mass Exchange, by I. T. El'perin, G. D. Rabinovich. 21 pp. RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, No 10, 1964, pp 130-135. 9700766
FTD-TT-65-1475

Formation and Growth of Bubbles in Water Boiling in Tubes, by N. P. Shamanov. RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, Vol 8, No 3, 1965, pp 294-299.
NLL RIS 3122

Critical Resistance and Critical Velocity of Fluidization of Fine-Grained Materials in Conical Apparatus, by A.P. Baskakov, L.G. Gal'perin. RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, Vol 9, No 2, 1965, pp 217-222. 9232780
ABC ANL-tr-290

Scientific Physics (Contd)

Flow Round a Plate Moving Through a Shockwave, by A. I. Golubinskiy.
RUSSIAN, per, Inzhenernyi Zhurnal, Vol 1, No 2, 1961, pp 26-30.
AEC AWRE-tr-51

Swelling and Steady Flutter of Heat-Compressed Panels in a Supersonic Flow, by V. V. Bolotin, Yu. N. Novichkov.
RUSSIAN, per, Inzh Zhur, Vol I, No 2, 1961, pp 82-96.
*NASA TT F-10,106

Calculation of a Turbulent Submerged Stream of Real Gas, by V. I. Bakulev. 17 pp.
RUSSIAN, per, Inzhenernyi Zhurnal, Vol 1, No 3, 1961, pp 65-74. 9700441
FTD-TT-65-1923

Non-One-Dimensional Solutions of the Equations of Magnetic Gas Dynamics, by V. A. Rykov.
RUSSIAN, per, Inzh Zhur, Vol V, No 5, 1965, pp 945-949.
NASA TT F-10,026

Shock Wave Compression of Periclase and Quartz and the Composition of Lower Mantle of the Earth, by L. V. Al'tshuler,
RUSSIAN, per, Iz Ak Nauk SSSR, Fiz Zemli, No 10, 1965, pp 1-6.
*NASA TT F-10,101

Turbulent Boundary Layer on a Flat Plate in an Incompressible Fluid, by G. S. Glushko.
RUSSIAN, per, Izv Ak Nauk SSSR, Ser Mekh, No 4, 1965, pp 13-23.
*NASA TT F-10,090

Laminar Boundary Layers in a Multi-Component Mixture of Gases, by N. A. Anfimov.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mashinostr, No 1, 1965, pp 25-31.
NASA TT F-10,038

Effect of the Boundaries of an Incompressible Fluid Flow on the Unsteady Aerodynamic Characteristics of a Profile, by D. N. Gorelov.
RUSSIAN, per, Izv Ak Nauk SSSR Mekh, No 5, 1965, pp 157-159.
*NASA TT F-10,112

Scientific Physics (Contd)

Approximate Analytical Methods in the Theory of Radiative Heat Transfer in an Absorbing Medium, by Yu. A. Surinov. 11 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavodov. Fizika, No 3, 1960, pp 19-26. 9700750
FTD-TT-65-1467

Spectral Transparency and Microstructure of Artificial Fog, by V. Ye. Zuyev, et al.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavodov Fizika, No 2, 1964, pp 90-97.
*FTD-HT-66-304

Coherent Beam Instability in a Chamber With Non-Conducting Walls, by V. V. Mazepus, B. V. Chirikov.
RUSSIAN, rpt, Koherentnaya Neustolichivost' Puchka v Kameru s Neoprovodysashchimi Stenkami, 1965. 16 pp. 9232780
AEC SLAC-tr-35

Automatic Vacuum Weighing Apparatus for Investigating the Decomposition Kinetics of Solids, by V. I. Yeroshkin, V. T. Pis'menko.
RUSSIAN, per, Kinetika i Kataliz, Vol VI, No 6, 1965, pp 1121-1122.
NASA TT F-10,696

Quantum Depolarization of Electrons in a Magnetic Field, by V. N. Baier, Yu. F. Orlov.
RUSSIAN, rpt, Kvantovaya Depolyarizatsiya Elektronov v Magnitnom Pole Novosibirsk, 1965. 6 pp 9232741
AEC SLAC-tr-31

Variational Principle for the Energy of Quasistationary States, by V. S. Rudakov.
RUSSIAN, per, Leningradskii Univ Vestnik Ser Fiziki i Khimii, No 3, 1965, pp 138-139.
Dept of Navy TR 4722/APL/JHU TG 230-T462

Summary of Theoretical Papers, by B. B. Kadomtsev.
RUSSIAN, rpt, 1965 Culham Conference on Plasma Physics.
NLL Ref: 9091.9 1965 (CTO/242)

Stability of a Plasma in a Mirror Machine with Stabilizing Bars, by B. A. Trubnikov.
RUSSIAN, rpt, 1965 Culham Conference on Plasma Physics Paper CN-21/125, pp 1-18.
NLL Ref 9091.9 1965 (CTO/231)

Scientific Physics (Contd)

Turbulent Heating of a Plasma by a Longitudinal Discharge Current, by M. V. Babkin.
RUSSIAN, rpt, 1965 Culham Conference Paper CN-21/154, pp 1-13.
NLL Ref: 9091.9F 1965 (CTO/233)

Optics of Photographic and Aerophotogrammetric Instruments, by L. S. Urmakher.
RUSSIAN, bk, Optika Fotograficheskikh i Aerofotogrammetricheskikh Priborov, 1965, pp 170-195.
*FTD-HT-66-334

Recording Spectrometer for the Long-Wave-length Infra-Red Range, by N. G. Yaroslavskiy.
RUSSIAN, per, Optika i Spektroskopiya, Vol 1, No 4, 1956, pp 507-515.
NLL Ref: 5828.4 1965 (11150)

Fundamental Plane Static Problems of Theory of Elasticity for Simply Connected and Double Connected Regions, by S. M. Belonosov. 239 pp.
RUSSIAN, bk, Osnovnyye Ploskiye Staticheskiye Zadachi Teorii Uprugosti Dlya Odnosvaznykh i Dvusvaznykh Oblastey, 1962, pp 1-231. 9700568-V
FTD-MT-64-389

On the Theory of Strong Interaction Between a Boundary Layer and a Hypersonic Inviscid Flow, by N. S. Matveyeva.
RUSSIAN, per, Prikladnaya Matematika i Mekhanika, Vol 29, No 4, 1965, pp 644-657.
*FTD-HT-66-299

Three Dimensional Flow of Ideal Gas Past Smooth Bodies, by K. I. Babenko, et al. 517 pp.
RUSSIAN, bk, Prostranstvennoye Obtekaniye Gladkih Tel Ideal'nym Gazom, 1964, 9231812-V
NASA TT F-380

Modern Problems in Physics - Mesons, by A. O. Baisenberg.
RUSSIAN, bk, Sovremenyye Problemy Fiziki, Muon-meson, 1964, 400 pp.
NLL R. 35137

The Structure of a Detonation Front in Gases, by B. V. Voitsekhovskiy, V. V. Mitrofanov, 175 pp.
RUSSIAN, bk, Struktura Fronta Detonatsii v Gazakh, 1963, pp 1-168. 9700767-V
FTD-MT-64-527

Scientific Physics (Contd)

The Role of Scattering in Problems of Radiant Heat Transfer, by V. N. Adrianov.
RUSSIAN, per, Teploenergetika, Vol 8, No 2, 1961, pp 63-66.
*FTD-MT-66-303

Limiting Levels of Heat Exchange when Liquid Metals Boil, by D. A. Labuntsov.
RUSSIAN, per, Teplofizika Vysokikh Temperatur, Vol 3, No 2, 1965, pp 276-284.
NLL Ref: 9091.9F 1965 (Risley Tr. 863)

On the Mechanism of Fermi Acceleration in the One-Dimensional Case, by G. M. Zaslavskiy, B. V. Chirikov.
RUSSIAN, rpt, Theory of Dynamical Systems.
NLL Ref: 5828.4 1965 (5799)

Studying the Movement of a Liquid in a Jet Tube, by L. M. Trifonov. 15 pp.
RUSSIAN, per, Trudy Leningrad. Politekhnicheskogo Institut. "Avtomatizatsiya i Tekhnologiya Mashinostroyeniya", No 233, 1964, pp 77-84. 9700760
FTD-TT-65-1407

On the Possibility of Measuring Atomic Oxygen at the Height of 100 - 150 KM by the Heat Traducer Method, by S. P. Perov, A. F. Chizhov. 14 pp.
RUSSIAN, per, Trudy Tsentral'naya Aerologicheskaya Observatoriya, No 56, 1964, pp 121-127.
9700438
FTD-TT-65-1416

Measurement of the Temperature of the Flame and Incandescent Gases Issuing from Explosion Proof Enclosures of Electrical Equipment, by A. A. Kaimakov, A. G. Tsaregorodtsev.
RUSSIAN, per, Trudy VostNII, Vol 4, 1964, pp 257-264.
NLL Ref: 8313.4 1965 (5094)

Electron and Ion Emission of Certain Materials in Connection With Their Utilization in a Thermo-Electron Energy Transformer, by B.I. Mikhaylovskiy. 5 pp.
RUSSIAN, per, Ukrayinskyy Fizichnyy Zhurnal, Vol 7, No 1, 1962, pp 75-77. 9700442
FTD-TT-65-1614

Effect of External Electric Field on the Conductivity of Gallium Arsenide, by M.L. Dmytruk, et al.
RUSSIAN, per, Ukrayinskyy Fizichnyy Zhurnal, Vol 10, No 7, 1965, pp 753-762.
*FTD-HT-66-340

Scientific
Physics (Contd)

Experiences in the Measurement of Areas on Aerial Photographs, by L. E. Smirnov, F. A. Chernyyayeva. 16 pp. RUSSIAN, per, Vestnik Leningradskogo Universiteta, No 12, 1964, pp 129-140. ACSI I-9349A ID 2204015066

Radiative Heat Transfer Near the Stagnation Point of a Blunt Body, by Z. S. Galanova. RUSSIAN, per, Vestn Leningr Univ Ser Matem Mekh i Astron, No 1, Issue 1, 1966, pp 120-130.

*NASA TT F-10,087

Experimental Analysis of the Disintegration of Liquid Jets, by A. S. Lyshevskii. 185 pp RUSSIAN, bk, Zakonomer. Drob. Zhidkost. Mekh. Fors. Davlen. Novocherkassk, Chap. 4, 1961, pp 75-107. NLL Ref: 8313.4 1965 (5225)

Mass Spectrometry of Gaseous Mixtures in Mags-2 Apparatus, by Ya. A. Yukhvidin. RUSSIAN, per, Zavodsk Lab, Vol XXIII, No 1, 1957, pp 35-41. NASA TT F-10,005

Physical Idealism of the Resonance Theory of the Hydrogen Bond, by M. I. Batuev. RUSSIAN, per, Zhur Fiz Khim, Vol XXV, No 8, 1951, pp 995-1000. HEW NIH No 5-45-66

Theory of the Chromatographic Separation of Isotopes, by S. E. Bresler. RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 32, No 3, 1958, pp 628-634. 9232797 AEC MLM-1333

Mechanism of Formation of the Photo-Electric State in Single Crystals of Some Silver Halides and Alkali Metals, by V. V. Pospelov, V. M. Fridkin. RUSSIAN, per, Zh. Nauch. i Priklad. Foto. i Kinemat, Vol 10, No 2, 1965, pp 118-123. NLL Ref: 5828.4 1965 (11143)

The Possibility of Improving the Signal/Noise Ratio on Photographic Images. (2) Experimental Investigation of the Method of Accumulation of Fluctuating Signals, by N. A. Aingorn. RUSSIAN, per, Zh. Nauch. i Priklad. Foto. i Kinemat, Vol 10, No 2, 1965, pp 131-143. NLL Ref: 5828.4 1965 (11144)

Scientific
Physics (Contd)

Excitation of Strong Collisionless Shock Waves in a Plasma, by R.Kh. Kurtmullayev, V.K. Malinovskiy. RUSSIAN, per, Zh. Prikl. Mekh. Tech. Fiz, No 2, 1963, pp 79-83. 9232875 ABC NP-tr-1378

Journal of Applied Mechanics and Technical Physics (PMTF), (Selected Articles). 37 pp. RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 1, Jan-Feb 1965, pp 45-56 & 88-92. 9700612 FTD-MT-65-538

Oscillations of a Plasma With an Electron Beam in an External Electric Field, by R. Z. Muratov, M. V. Samokhin. RUSSIAN, per, Zh. Prikl. Mekhan. i Tekhn. Fiz, No 5, 1965, pp 3-8. NASA TT F-10,092

The Operation of a Ruby Laser With Inclined Mirrors, by V.L. Broude, et al. RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 3, No 3, 1965, pp 225-229. *FTD-HT-66-310

On the Mechanism of Radioluminescence of Alkaline Halide Crystallophosphors (Presented at the 12th Conference on Luminescence in January 1964 in L'vov). RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 3, No 3, 1965, pp 279-282. *FTD-HT-66-310

The Relationship Between the Strength of Solid Bodies and Time, by S. N. Zhurkov, B. N. Narzulaev. RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki, Vol 23, No 10, 1953, pp 1677-1689. NLL RIS 2925

Ice Crystal Formation Mechanism and Dry Ice Evaporation, by C. Po-liin. CHINESE, per, Chi-Hsiang Iisueh-Pao, Vol 34, No 1, 1964, pp 87-93. NLL Ref: 7773.723 1965 (EMM 65-2)

Mutual Influence between the Effects of Radiation and the Crystallisation Properties of Polyethylene, by Chou Hsiao and Chang Chih-p'ing, 11 pp. CHINESE, per, Kao-fen-tzu T'ung-hsun, Vol VII, No 6, Nov 1965, pp. 386-395. JPNB 35342

Scientific
Physics (Contd)

The Energy Spectrum of Electrons in Long Chains of Conjugated Bonds, by K. Bai-Lin.
CHINESE, per, Scientia Sinica, Vol 10,
No 6, pp 653-675.
NLL Ref: 5809.51 1965 (TIL/T. 5487)

The Limiting Equilibrium of Cylindrical Shell With Thin Surface Layer Reinforcement, by Huang, K'o-chih.
CHINESE, per, Li Hsueh Hsueh Pao (Acta Mechanica Sinica), Vol 7, No 2, 1964, pp 91-108.
*FTD-HT-66-407

A Note on the Non-Uniqueness of the Umkehr Method B, by LI Li-bin and HUANG Xin-yu, et al, 10 p.
CHINESE, per, Ti-ch'iu Wu-li Hsueh-pao, Vol XIII, No 1, 1964, pp 20-23. 9700538
AFCRL Emm-65-40

The Quantum Theory of Ferromagnetic Resonance the Resonance Conditions of an Isotropic Ferrite, by YANG Ch'i, 24 p.
CHINESE, per, Wu-li Hsueh-pao, Vol XIX, No 3, 1963, pp 139-150. 9700546
AFCRL Emm-65-15

On the Brueckner-Goldstone Linked Cluster Expansion Formula, by WU Shi-shu, 27 p.
CHINESE, per, Wu-li Hsueh-pao, Vol XX, No 2, 1964, pp 147-158. 9700545
AFCRL Emm-65-27

The Interaction of S-Electrons with Spin Waves in a Ferromagnetic, by SUN Hsin, 25 p.
CHINESE, per, Wu-li Hsueh-pao, Vol XX, No 3, 1964, pp 193-206. 9700542
AFCRL Emm-65-38

The Effect of Heat Treatment on the Ferromagnetic Resonance of Lutecium Iron Garnet and Magnesite Ferrite Single Crystals, by LI Gou-Dong and TAN Sheng-shu, 18 p.
CHINESE, per, Wu-li Hsueh-pao, Vol XX, No 3, 1964, pp 261-269. 9700539
AFCRL Emm-65-39

The Orientations of NiO Epitaxially Grown on Ni Films, by Hsu P'u, Ch'en Ch'ien-t'i and Kuo K'o-hsin, 13 pp.
CHINESE, per, Wu-li Hsueh-pao, Vol XXI, No 5, May 1965, pp. 989-996.
JPSB 35228

Scientific
Physics (Contd)

Optical and Electrical Phenomena in Copper Activated Sodium Chloride Crystals, by A. Bohun, J. Dolejsi, et al.
CZECH, per, Ceskoslovensky Casopis pro Fysiku, Vol 13, No 3, 1963, pp 211-215.
*FTD-HT-66-284

Contribution to the Study of the Optical Properties of Cuprous Halides at Low Temperatures, by Rene Reiss.
FRENCH, per, Cahiers de Physique, Vol 13, No 104, Apr 1959, pp 129-172. 9232727-V
AEC UCRL tr-10,016

An Attempt to Absolute Analysis by Means of Spark Source Mass Spectrometry, by Michel Desjardins, 51 pp.
FRENCH, rpt, Essai d'analyse Absolue par Spectrometrie de Masse a Etincelles, Report CEA-B-2721, 1965.
Dept of Navy Tr 4702/ONI 2170

Study of the Solubility of Plutonyl Nitrate With a View to its Extraction by a Solvent, by Gerard Vergnaud.
FRENCH, rpt, Etude de la Solubilite du Nitrate de Plutonyle en Vue de Son Extraction par Solvent 21 Sep 1965.
*AEC ORNL-tr-1263

X-ray Diffraction Study of Neutron-Irradiated Beryllia, by B. Belbeoch, J. Rodot et al.
FRENCH, rpt, Etude par Diffraction des Rayons X de Glucine Irradiée Aux Neutrons, Jun 1965, 69 pp. 9232768-V
AEC UCRL-tr-10,012

Radiolysis of Absorbed Carbon Dioxide in the Radiolysis of CO₂, by Roger Coekelbergs, Andre Crucq, et al.
FRENCH, per, J. Chim. Phys., Vol 60, 1963, pp 891-898. 9232866
AEC ORNL-Tr-1215

A Method of Selective Irradiation by Internal Beam, by J. Andrade E. Silva, G. Iochak, FRENCH, per, J. Phys. (Paris), Vol 26, No 3, 1965, pp 97A-103A. 9232876
AEC NP-tr-1372

Superconductors of the Second Type of Lead-Thallium System, by G. Bon Mardion, et al.
FRENCH, per, J. Phys., Chem. Solids, Vol 26, 1965, pp 1143-1155.
*AEC ORNL-tr-1261
EDC 26 Jun 66

Scientific Physics (Contd)

Experimental Investigation of the Convection Currents in a Liquid Sheet, by Henri Benard, 10 pp.
FRENCH, per, Journal de Physique Theorique et Appliquees, Ser 3, Vol IX, 1900, pp 513-524.
Dept of Navy Tr 4702/ONI 2177

The Infra-Red-Spectrum of the U-Center, by G. Schaefer.
FRENCH, per, Physics and Chemistry of Solids, Vol 12, 1960, pp 233-244.
AEC ANL-tr-206

Process for the Fabrication of an Electric Discharge Tube in a Gas Containing a Certain Quantity of Tritium and an Electric Discharge Tube in a Gas Obtained
FRENCH, rpt, Procede Pour la Fabrication d'un Tube Electrique a Decharge Dans un Gaz Contenant une Certaine Quantite de Tritium et Tube Electrique a Decharge Dans un Gaz Obtenu Selon ce Procede, Sep 9, 1965.
*AEC

On the Penning Discharge With hot Cathodes and its Application as an Ion Source, by S. von Goeler, H. Wagner. 16 pp.
FRENCH, rpt, Proceeding Intern. Conf. Ionization Phenomena Gases, 6th Conf, Paris, 1963, Np 2 pp 405-410
AEC AERE-tr-1016

New Methods for the Elimination of the Slit Influence in X-ray Small Angle Photographs, by Volkmar Gerold.
GERMAN, per, Acta Crystallogr., Vol 10, 1957, pp 287-290. 9232807
AEC ORNL-tr-1112

Structure Refinement by the method of Least Squares with Free Molecular Parameters and with Secondary Factors, by C. Scheringer.
GERMAN, per, Acta Crystallographica, Vol XIX, 1965, pp 513-524.
HEW NIH No 5-24-66

The Photoelectric Properties of Semiconductors Prepared by Sulfiding Evaporated Cadmium Deposits, by L. Gombay, N. Marek.
GERMAN, per, Acta Physica et Chemica, Vol 2, No 1-4, 1956, pp 34-38. 9232765
AEC UCRL-tr-10,024

Scientific Physics (Contd)

Magneto Resistance of Single Crystals of Iron in Saturation Field, Residual Resistance, by Ch. Bozna.
GERMAN, per, Acta Physica Polonica, Vol XVIII, 1965, pp 777-782.
*Dept of Navy/NRL

On Rotating Currents in Pipes and Their Application in the Stabilization of Electric Arcs, by E. Traub.
GERMAN, per, Annalen der Physik, Vol 5, No 18, 1933, pp 169-192.
*FTD-HT-66-404

The Fibrous Structure of the Crystalline Lens, by J. C. Reil.
GERMAN, rpt, Inaug Diss Univ Halle, 1794, 40 p.
HEW NIH No 4-23-66

Temperature Increase of Objects in Electron Microscopes, by B. von Borries, et al.
GERMAN, per, Kolloid Zietschrift, Vol 106, 1944, pp 123-128.
*AEC
EDC 1 Aug 66

Two-beam Interference in Plane-mirror Systems, by G. Schulz, 42 p.
GERMAN, per, Optica Acta, Vol XI, No 43-60, 1964, pp 131-143. 9700556
APCRL T-G-238

The Spatial Distribution of Wedge Interference Pringes, by G. Minkwitz and G. Schulz, 16 p.
GERMAN, per, Optica Acta, Vol XI, 1964, pp 89-99.
9700554
APCRL T-G-239

X-ray Scattering on Crystals With Dislocation.
1. Cylindrical Crystal With Axial Screw Dislocation, by M. Wilkens.
GERMAN, per, Physica Status Solidi, Vol 2, 1962, pp 692-712.
*AEC 2394

Investigation of the Strain-Hardenning Curve for Polycrystalline Copper, by D. Krause, et al.
GERMAN, per, Phy. Status Solidi, Vol 9, 1965, pp 485-498.
*AEC
EDC 30 Jun 66

Scientific
Physics (Contd)

Paramagnetic Resonance (ESR and Endor Spectroscopy) of Colour Centres in Alkali Halide Crystals, by H. Seidel, H. C. Wolf.
GERMAN, per, Physica Status Solidi, Vol 11, No 1, 1965, pp 33-48. 9232868
AEC NP-tr-1379

Total Absorption as a Measure of the Number of Dispersion Electrons, by Wilhelm Schutz.
GERMAN, per, Zeit. Astrophysik, Vol 1, 1930, pp 300-313. 9232874
AEC ORNL-tr-1144

Intensity and Natural Width of the Blue Cesium Doublet. I., by Wilhelm Schutz.
GERMAN, per, Zeit. fuer Physik, Vol 64, 1930, pp 682-696. 9232895
AEC ORNL-tr-1180

Intensity and Natural Width of Spectral Lines, by E.F.M. van der Held.
GERMAN, per, Zeit. Physik, Vol 70, 1931, pp 508-515. 9232738
AEC ORNL-tr-1142

Determination of the Transition Probability 2P-1S of Sodium by Absolute Intensity Measurements of Flames, by E.F.M. van der Held, L.S. Ornstein.
GERMAN, per, Zeit. Physik, Vol 77, 1932, pp 459-477. 9232739
AEC ORNL-tr-1143

The Influence of the Arrangement of Deficiencies on the Lattice Heat Conductivity of Insulators, by Helmut Bross.
GERMAN, per, Zeitschrift fur Physik, Vol 189, 1966, pp 33-54.
*AEC

Carbon Layers With Diamond Structure, by Heinz Schmellenmaier.
GERMAN, per, Zeitschrift fur Physikalische Chemie (Leipzig), Vol 205, No 6, 1956, pp 349-350.
*AEC
EDC 6-24-66

On the Calculation of the Waste Gas Concentration at Ground Level in the Lee of Isolated Industrial Chimneys, by Julius Drimmel.
ITALIAN, per, Geofisica Pura e Applicata (Milan), Vol 56, No 3, 1963, pp 205-215. 9232773
AEC ORNL-tr-980

Scientific
Physics (Contd)

Use of the Monte Carlo Method to Solve Interpolation Problems, by G. Cortellessa, G. Farchi.
ITALIAN, rpt, Istituto Superiore di Sanita' Laboratori di Fisica, ISS 65/10 Rome 15 Apr 1965 9232717
AEC ORNL-tr-1100

On Methods of Measurement of Polarization Potentials, by R. Aletti, U. Berticcu, et al.
ITALIAN, rpt, Proceedings Intern. Comm. Electrochem., Thermodynam. and Kinet, 3rd Meeting, Manfredi, Milan, 1952, pp 30-43. 9232793
AEC UCRL-tr-1311-L

An Analysis of Industrial Radiography as an Image Transfer System, by M. Tajima, I. Hatanaka.
JAPANESE, per, Fuji Shashin Firumu Kenkyu H Hokoku, No 11, 1963, pp 68-72.
NLL Ref: 5828 1965 (11151)

Activation Analysis of Short Life Nuclides: II by Nakai.
JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXI, 1960, pp 104-107.
*ACSI J-0123
ID 2204031466

Effect of Gas Sorption on Physical Properties of CdSe Films, by J. Viscakas, A. Medeisis, 12 pp.
LITHUANIAN, per, Matematika Fizika, No 9, Vol XXXIII, 1960, pp 161-169.
ACSI I-9314
ID 2204012966

Change in the Biophysical Parameters of the Protoplasm's Surface Layer of Mollusc Neurons Induced by Ionizing Radiation, by V. I. Bogomolets' and V. A. Mayskiy, 9 pp.
UKRAINIAN, per, Fisiologichniy Zhurnal, Vol 12, No 1, Jan-Feb 1966, pp. 63-68.
JPRB 35187

Scientific
Miscellaneous

Bratsk Turbine Builders Get Lenin Prize,
by R. Shcherbakov, 5 pp.
RUSSIAN, np, Ekonicheskaya Gazeta, No 9,
Mar 1966, p. 27.
JPRS 35394

Vacancies in the Academy of Sciences USSR,
by M. V. Keldysh and G. D. Afanas'yev, 5 pp.
RUSSIAN, np, Izvestiya, 19 Apr 1966, p. 5.
JPRS 35793

Joint Institute of Nuclear Research Cele-
brates Tenth Anniversary, by I. Ulegla,
5 pp.
RUSSIAN, np, Leninskoye Znamya, 26 Mar 1966,
p. 3.
JPRS 35379

Work on the Academy of Sciences Estonian
SSR, by I. G. Rykhfel'd, 7 pp.
RUSSIAN, np, Sovetskaya Estoniya, 23 Mar
1966, p. 3.
JPRS 35793

Certain Problems of Translation From Information-
Logical Language Into Russian, by Ye. V. Padicheva.
43 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Informatsiya,
No 2, 1964, pp 20-27. 9700764
FTD-TT-65-1304

Device of the Selection of Information by the
Given Word, by D. G. Antidze. 43 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Informatsiya,
No 2, 1964, pp 47-48. 9700764
FTD-TT-65-1304

The Theory of Organization As An Independent
Branch of Knowledge, by L. A. Petrusenko, 5 pp.
RUSSIAN, per, Voprosy Filosofii, No 2, 1966,
pp. 140-143.
JPRS 35720

Scientific Conference on the World Literary
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by Mikola Nevrli, 7 pp.
UKRAINIAN, per, Dukly, No 2, Feb 1966,
pp. 47-50.
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Our Teaching and Scientific Research Work,
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CHINESE, per, Chung-kuo Hsin-wen, 8 Mar 1966,
pp. 9-10.
JPRS 35490

Completion of Scientific Research Tasks,
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CHINESE, per, Kuang-ming Jih-pao, 14 Apr
1966, p. 1.
JPRS 35584

Awards to Croatian Science Workers Explained
by Committee, 8 pp.
CROATIAN, np, Vjesnik, 29 Apr 1966, p. 4.
JPRS 35855

Second Part. Structures of the Scientific
Policy in Belgium.
FRENCH, rpt, In La Politique Scientifique et
l'Organisation de la Recherche Scientifique en
Belgique, Paris, 1965, pp 18-38.
HEW NIH No 4-7-66

Report of the Activities of the Department
of Technical Sciences from 1949 to 1964,
by Geza Bognar, 28 pp.
HUNGARIAN, per, A MTA Muszaki Tudomanyok
Osztalyanak Koszlemenyei, Vol 36, No 1-4,
1965, pp. 11-34.
JPRS 35473

The Status and Development of Scientific
Research.
HUNGARIAN, bk, Kozponti Statisztikai Hivatal,
1965, Vol XLI, 71 pp.
CFSTI TT 67-58005

President of Academy of Sciences of MPR on
Certain Results and Basic Aims of Scientific
Research, by B. Shirendab, 6 pp.
MONGOLIAN, np, Unen, 8 Feb 1966, pp. 2 & 3.
JPRS 35491

Scientific Research as Reflected in Statistics,
by I. Perenbac, 7 pp.
RUMANIAN, per, Revista de Statistica, Vol 15,
No 1, Jan 1966, pp. 29-34.
JPRS 35190

New Conditions and Perspectives in Scientific
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RUMANIAN, per, Vista Economica, Vol 4, No 18,
6 May 1966, p. 5.
JPRS 35847

INFORMATION RECEIVED DURING JUNE
ON COVER-TO-COVER TRANSLATIONS

- Acta Biochimica Polonica, Vol XIII, No 4, 1965.
OTS TT 65-60309/4
- Acta Mathematica Sinica, Vol XV, No 5, 1965.
Am Math Soc
Vol VIII, No 3, 1965
- Acta Mathematica Sinica, Vol XV, No 6, 1965.
Am Math Soc
Vol VII, No 4, 1965
- Acta Poloniae Pharmaceutica, Vol XXII, No 1,
1965.
OTS TT 65-50303/1
- Avtotekhnika Dale, Vol IV, No 1, 1966.
JPRS 36024
- Avtotekhnika Dale, Vol IV, No 2, 1966.
JPRS 36046
- Avtotekhnika Dale, Vol IV, No 3, 1966.
*JPRS/EP-4170/3
- Archivum Immunologiae et Therapiae Experimentalis,
Vol XIII, No 5, 1965.
OTS TT 65-50305/5
- Bilten Instituta za Nuklearne Nauke "boris
Kidric", Vol XVI, No 3, 1965.
ABC tr-6486/3
- Bulleten Eksperimental'noi Biologii i Meditsiny,
Vol LX, No 8, 1965.
CB
- Izdat. Informatonnye, No 4, 1966.
Burew Information Service
- Elektrokhimiya, Vol I, No 8, 1965.
CB
- Elektronika, Vol XIX, No 12, 1965.
JPRS
- Endokrynologija Polska, Vol XVI, No 1-2, 1965.
OTS TT 65-50307/1-2
- Fizika Tverdogo Tela, Vol VII, No 12, 1966.
Am Inst Phys
Vol VII, No 12, Jun 1966
- Fiziologiya Rastenij, Vol XII, No 4, Jul/Aug 1965.
CB
- Folia Morphologica, Vol XXIII, No 4, 1964.
OTS TT 64-11413/4
- Genetika, No 3, 1966.
JPRS 36113
- Genetika, No 5, 1966.
*JPRS/SF-4174/5
- Gigiena i Sanitarija, Vol XXIX, No 2, 1964.
Israel Program for Scientific Translations
- Gigiena i Sanitarija, Vol XXIX, No 3, 1964.
Israel Program for Scientific Translations
- Gigiena i Sanitarija, Vol XXIX, No 4, 1964.
Israel Program for Scientific Translations
- Gigiena i Sanitarija, Vol XXIX, No 6, 1964.
Israel Program for Scientific Translations
- Gigiyena Truda i Professional'nyye Zabol-
evniya, No 5, 1966.
*JPRS/DC-12237/5
- Investiya Akademii Nauk SSSR, Metally, No 3,
1965.
Scientific Information Consultants Limited
- Investiya Akademii Nauk SSSR, Seriya Fizicheskaya,
Vol XXX, No 5, 1965.
Columbia Tech Trans

- Investiya VUZ Radiofizika, No 2, Mar/Apr 1965.
 Faraday Press
 *JPRS 36210
- Investiya VUZ Priberestroyeniya, No 1, 1966.
 JPRS 36210
- Investiya VUZ Radiofizika, Vol VIII, No 3,
 May/Jun 1965.
 Faraday Press
- Kibernetika, Vol I, No 3, May/Jun 1965.
 Faraday Press
- Kibernetika, No 6, 1965.
 JPRS 35904
- Kibernetika, No 2, Mar/Apr 1966.
 *JPRS/CSD 1872
- Kinetika i Kataliz, Vol VI, No 4, Jul/Aug 1965.
 CB
- Klinicheskaya Meditsina, Vol XLIV, No 1, 1966.
 JPRS 35917
- Klinicheskaya Meditsina, Vol XLIV, No 5, 1966.
 *JPRS/DC-12187/5
- Kolloidnyi Zhurnal, Vol XXVII, No 5, Sept/Oct
 1965.
 CB
- Mikrobiologiya, Vol XXXIV, No 4, Jul/Aug 1965.
 CB
- Nefrologika, Vol I, No 2, 1965.
 ANC tr-6488
- Optika i Spektroskopiya, Vol IX, No 2, 1966.
 Optical Soc of Amer
- Polski Przeglad Radiologiczny i Medycyny Wewnetrznej,
 Vol XXVIII, No 6, 1964.
 ORB TT 64-11A15/6
- Polskie Archiwum Medycyny Wewnetrznej, Vol
 XXXV, No 3, 1965.
 ORB TT 65-50306/5
- Poroshkovaya Metallurgiya, No 7 (31), 1965.
 CB
- Poroshkovaya Metallurgiya, No 8(32), 1965.
 CB
- Radiobiologiya, Vol IV, No 5, 1964.
 Israel Program for Scientific Translations
- Radiobiologiya, Vol IV, No 6, 1964.
 Israel Program for Scientific Translations
- Radiorhimiya, Vol VII, No 4. Jul/Aug 1965.
 CB
- Radiotekhnika, Vol XX, No 12, 1965.
 INRE
- Roczniki Chemii, Vol XXXIV, No 6, 1960.
 ANC tr-4610
- Sovetskaya Miraveekhronomiya, No 2, 1966.
 JPRS 36042
- Vestnik Akademii Meditsinskikh Nauk SSSR,
 Vol XX, No 12, 1965.
 JPRS 35992
- Vestnik Akademii Meditsinskikh Nauk SSSR,
 Vol XXI, No 2, 1966.
 JPRS 36168
- Vestnik Akademii Meditsinskikh Nauk SSSR,
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 *JPRS/NY-13199/5
- Vestnik Akademii Nauk SSSR, No 4, 1966.
 *JPRS/CSD 1878

Vestnik Khimii Zemli, No 5, 1966.
*JPRS/EN-1876

Vesnik Geologija, Ser A, No 21, 1963.
OTS TT 63-11454/1

Vestnik Sverzhi, No 5, 1966.
*JPRS/NY-1885

Zhurnal Eksperimental'noi i Teoreticheskoi
Fiziki, Vol XLIX, No 4, Oct 1965.
Am Inst Phys
Vol XXII, No 4, 1966

Zhurnal Obozhevi Khimii, Vol XXXIV, No 8, 1965.
CB

Zhurnal Organicheskoi Khimii, Vol I, No 8,
1965.
CB

Zhurnal Prikladnoi Khimii, Vol XXXVIII, No 8,
1965.
CB

Zhurnal Tekhnicheskoi Fiziki, Vol XXIV, No 12,
1965.
Am Inst Phys
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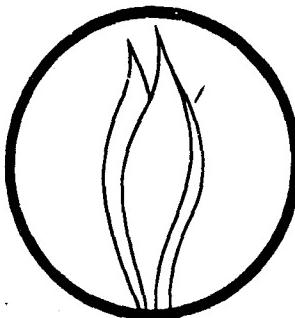
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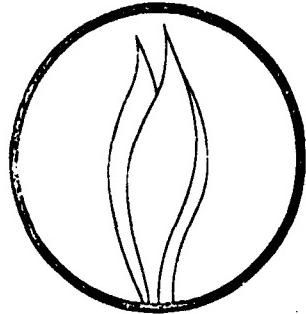
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Soviet Radiophysics

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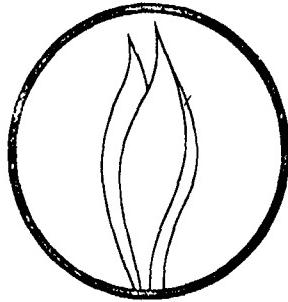
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(No 6, 1965)

- USSR -

Following is a complete translation of the Russian-language periodical Kibernetika (Cybernetics), Kiev, No 6, November-December 1965, "Naukova Dumka", pages 1-103, plus inside front and rear covers. Names of authors and original page numbers accompany each article.

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Central Intelligence Agency



Washington, D.C. 20505

7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

Mandy Alcivar
Sergio N. Alcivar
Chief, CIA Declassification Center,
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Enclosures:

1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)

UNCLASSIFIED

ENCLOSURE I**Processing of OGA-Held CIA Documents**

**The following CIA documents located at DTIC were reviewed
by CIA and declassification guidance has been provided.**

OCA Doc ID	Job Num	Box	Par	Doc ID	Doc	Document Title	Pub Date	Pages	Decision	Proc Date
AD0482/32	78-03109A	56	1	5	100	Consolidated Translation Survey For April 1966	4/1/1966	203	Approved For Release	3/25/2004
AD0485874	78-03109A	56	1	6	101	Consolidated Translation Survey For May 1966	5/1/1966	250	Approved For Release	3/25/2004
AD0486759	78-03109A	56	1	7	102	Consolidated Translation Survey For June 1966	6/1/1966	265	Approved For Release	3/25/2004
AD0488131	78-03109A	56	1	8	103	Consolidated Translation Survey For July 1966	7/1/1966	178	Approved For Release	3/25/2004
AD0800235	78-03109A	57	1	1	104	Consolidated Translation Survey For August 1966	8/1/1966	264	Approved For Release	3/25/2004
AD0801439	78-03109A	57	1	2	105	Consolidated Translation Survey For September 1966	9/1/1966	211	Approved For Release	3/25/2004
AD0803607	78-03109A	57	1	3	106	Consolidated Translation Survey For October 1966	10/1/1966	247	Approved For Release	3/25/2004
AD0804982	78-03109A	57	1	4	107	Consolidated Translation Survey For November 1966	11/1/1966	203	Approved For Release	3/25/2004
AD0806465	78-03109A	57	1	5	108	Consolidated Translation Survey For December 1966	12/1/1966	234	Approved For Release	3/25/2004
AD0808740	78-03109A	57	1	6	109	Consolidated Translation Survey For January 1967	1/1/1967	277	Approved For Release	3/25/2004
AD0811456	78-03109A	57	1	7	110	Consolidated Translation Survey For February 1967	2/1/1967	234	Approved For Release	3/25/2004
AD0813563	78-03109A	57	1	8	111	Consolidated Translation Survey For March 1967	3/1/1967	342	Approved For Release	3/25/2004
AD0814969	78-03109A	57	1	9	112	Consolidated Translation Survey For April 1967	4/1/1967	268	Approved For Release	3/25/2004
AD0816126	78-03109A	58	1	1	113	Consolidated Translation Survey Through 31 May 1967	5/31/1967	210	Approved For Release	3/25/2004
AD0818406	78-03109A	58	1	2	114	Consolidated Translation Survey Through 30 June 1967	6/30/1967	271	Approved For Release	3/25/2004
AD0834366	78-03109A	58	1	3	115	Consolidated Translation Survey Through 31 July 1967	7/31/1967	318	Approved For Release	3/25/2004
AD0820905	78-03109A	58	1	4	116	Consolidated Translation Survey Through 31 August 1967	8/31/1967	308	Approved For Release	3/25/2004
AD0822924	78-03109A	58	1	5	117	Consolidated Translation Survey Through 30 September 1967	9/30/1967	330	Approved For Release	3/25/2004
AD0824230	78-03109A	58	1	6	118	Consolidated Translation Survey Through 31 October 1967	10/31/1967	200	Approved For Release	3/25/2004
AD0824515	78-03109A	58	1	9	121	Consolidated Translation Survey Through 31 January 1968	1/31/1968	221	Approved For Release	3/25/2004
AD0824581	78-03109A	58	1	7	119	Consolidated Translation Survey Through 30 November 1967	11/30/1967	94	Approved For Release	3/25/2004
AD0829839	78-03109A	59	1	1	122	Consolidated Translation Survey Through 29 February 1968	2/29/1968	246	Approved For Release	3/25/2004